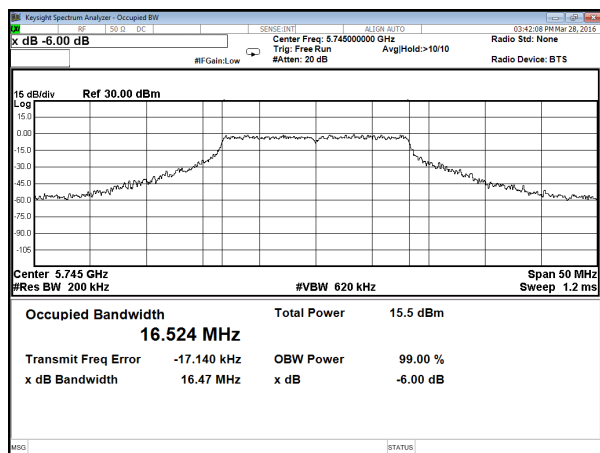
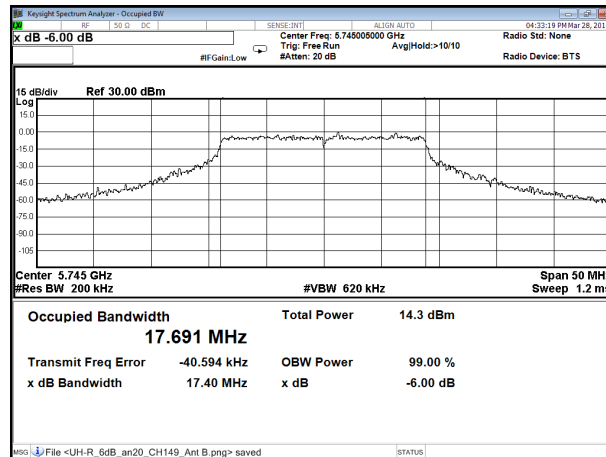
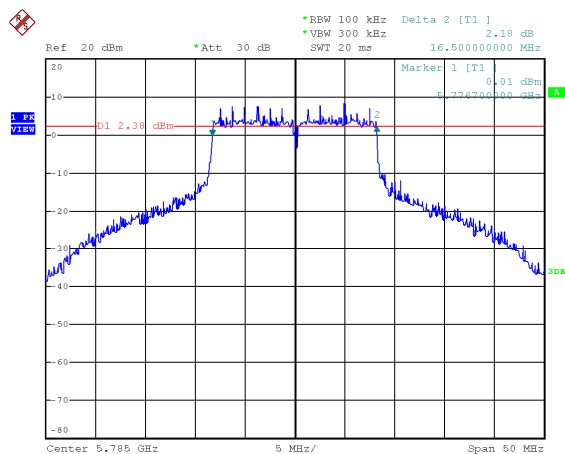




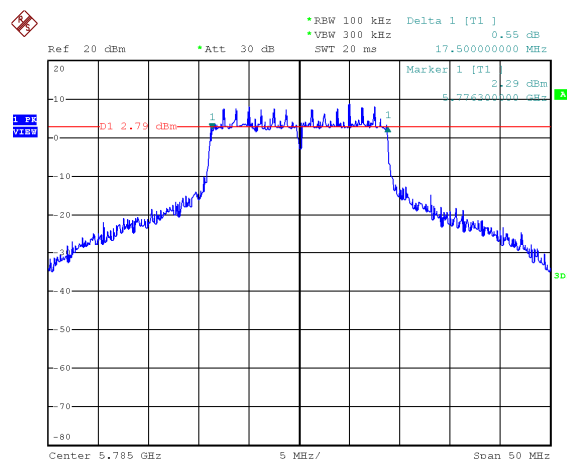
Antenna 2

Modulation Standard: 802.11a (6Mbps)
CH149Modulation Standard: 802.11an, HT20 (19.5Mbps)
CH149

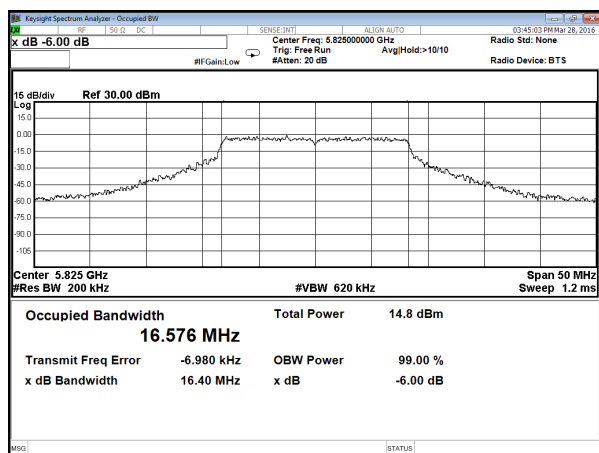
CH157



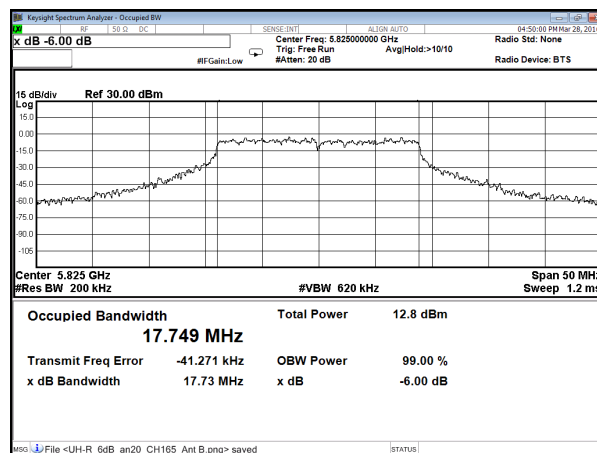
CH157

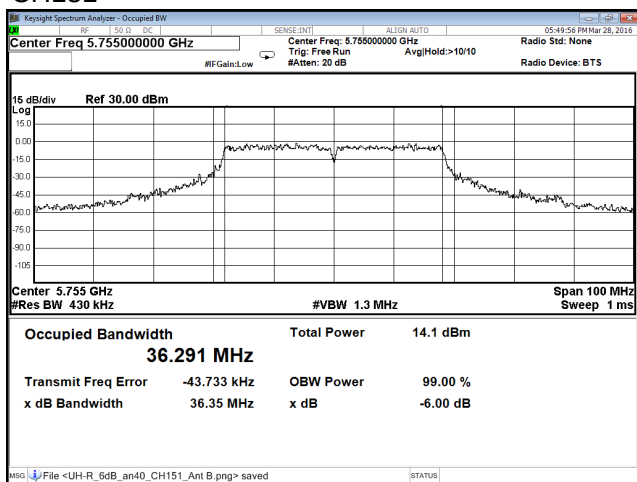
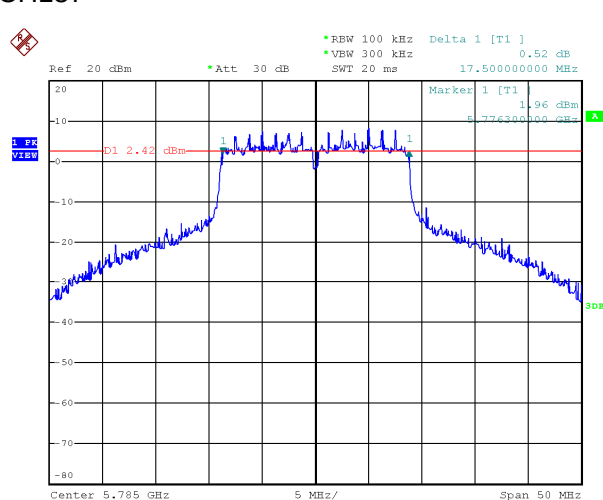


CH165

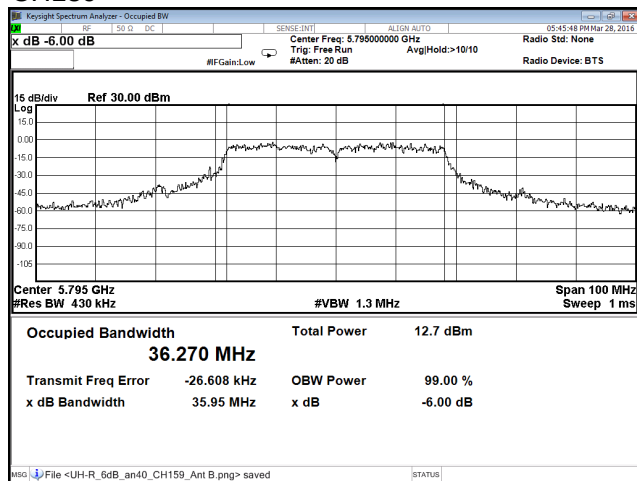


CH165

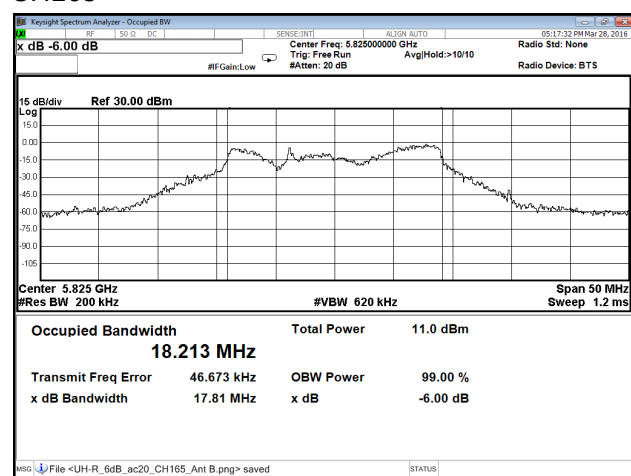
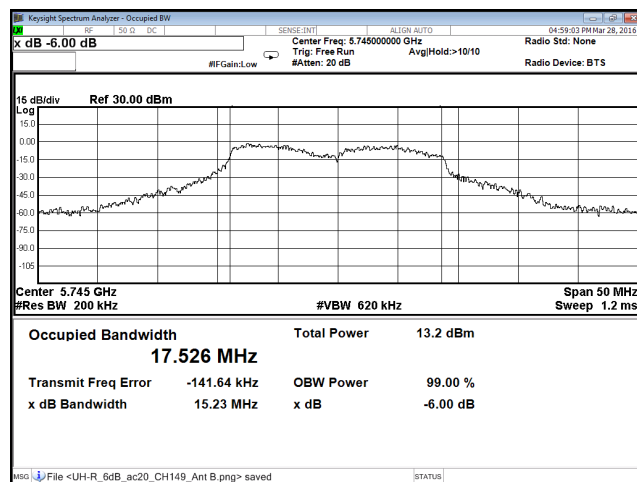
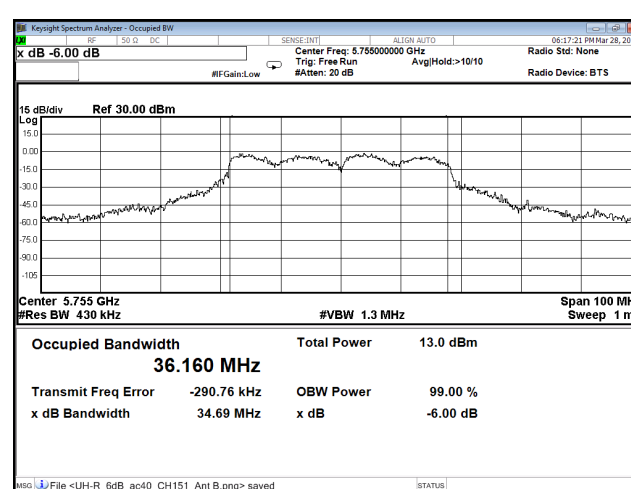


Modulation Standard: 802.11an, HT40 (40.5Mbps)
CH151Modulation Standard: 802.11ac, VHT20 (6.5Mbps)
CH157

CH159

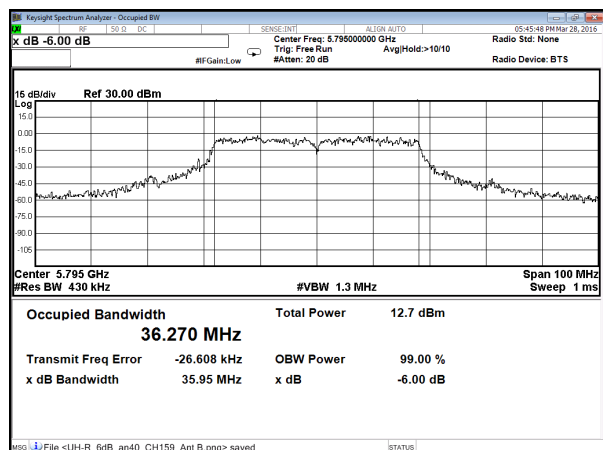


CH165

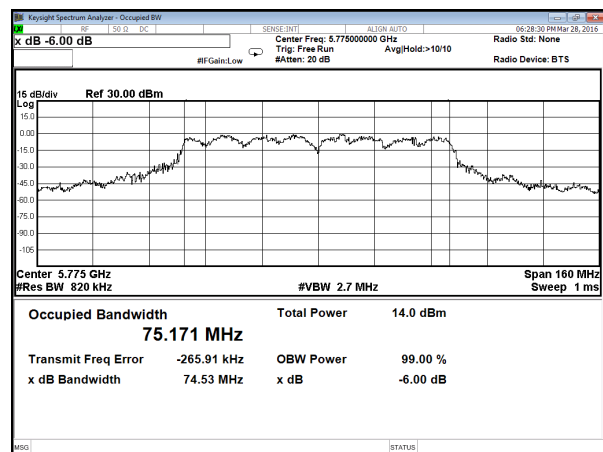
Modulation Standard: 802.11ac, VHT20 (6.5Mbps)
CH149Modulation Standard: 802.11ac, VHT40 (13.5Mbps)
CH151



Modulation Standard: 802.11ac, VHT40 (13.5Mbps)
CH159



Modulation Standard: 802.11ac, VHT80 (29.3Mbps)
CH155





9. 26dB 頻寬之規定

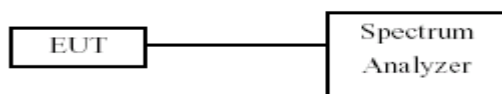
9.1. 適用標準

None; for reporting purposes only.

9.2. 測試方法

Reference to 789033 D02 General UNII Test Procedures New Rules v01: The transmitter output is connected to a spectrum analyzer with the RBW set to approximately 1% of the emission bandwidth, the VBW $\geq$ RBW, peak detector and max hold.

9.3. 測試配置



9.4. 測試結果及數據

Test Result : PASS Temperature : 21°C
Test Date : Nov. 24, 2017 Humidity : 55%

802.11a mode in the 5.2G Band

Channel	Frequency (MHz)	Ant. 0 26dB Bandwidth (MHz)	Ant. 1 26dB Bandwidth (MHz)	Ant. 2 26dB Bandwidth (MHz)
Low	5180	20.89	20.47	20.91
Middle	5220	27.10	24.10	28.80
High	5240	20.47	20.12	21.21
Worst		27.10	24.10	28.80

802.11n HT20 mode in the 5.2G Band

Channel	Frequency (MHz)	Ant. 0 26dB Bandwidth (MHz)	Ant. 1 26dB Bandwidth (MHz)	Ant. 2 26dB Bandwidth (MHz)
Low	5180	20.34	19.58	19.60
Middle	5220	33.60	28.70	27.70
High	5240	19.77	20.21	19.43
Worst		33.60	28.70	27.70

**802.11n HT40 mode in the 5.2G Band**

Channel	Frequency (MHz)	Ant. 0 26dB Bandwidth (MHz)	Ant. 1 26dB Bandwidth (MHz)	Ant. 2 26dB Bandwidth (MHz)
Low	5190	40.65	39.76	43.95
High	5230	50.00	47.40	47.60
Worst		50.00	46.80	47.60

802.11ac VHT20 mode in the 5.2G Band

Channel	Frequency (MHz)	Ant. 0 26dB Bandwidth (MHz)	Ant. 1 26dB Bandwidth (MHz)	Ant. 2 26dB Bandwidth (MHz)
Low	5180	20.93	19.96	19.62
Middle	5220	27.85	23.70	26.55
High	5240	20.42	20.45	20.06
Worst		27.85	23.70	26.55

802.11ac VHT40 mode in the 5.2G Band

Channel	Frequency (MHz)	Ant. 0 26dB Bandwidth (MHz)	Ant. 1 26dB Bandwidth (MHz)	Ant. 2 26dB Bandwidth (MHz)
Low	5190	40.59	40.14	40.60
High	5230	48.40	46.80	48.20
Worst		48.40	46.80	48.20

802.11ac VHT80 mode in the 5.2G Band

Channel	Frequency (MHz)	Ant. 0 26dB Bandwidth (MHz)	Ant. 1 26dB Bandwidth (MHz)	Ant. 2 26dB Bandwidth (MHz)
Middle	5210	84.16	85.76	83.84
Worst		84.16	85.76	83.84

**802.11a mode in the 5.8G Band**

Channel	Frequency (MHz)	Ant. 0 26dB Bandwidth (MHz)	Ant. 1 26dB Bandwidth (MHz)	Ant. 2 26dB Bandwidth (MHz)
Low	5745	21.24	20.93	20.67
Middle	5785	31.70	30.60	28.90
High	5825	21.20	20.40	21.21
Worst		31.70	30.60	28.90

802.11n HT20 mode in the 5.8G Band

Channel	Frequency (MHz)	Ant. 0 26dB Bandwidth (MHz)	Ant. 1 26dB Bandwidth (MHz)	Ant. 2 26dB Bandwidth (MHz)
Low	5745	20.10	20.39	19.98
Middle	5785	32.80	32.00	30.20
High	5825	20.13	20.79	19.87
Worst		32.80	32.00	30.20

802.11n HT40 mode in the 5.8G Band

Channel	Frequency (MHz)	Ant. 0 26dB Bandwidth (MHz)	Ant. 1 26dB Bandwidth (MHz)	Ant. 2 26dB Bandwidth (MHz)
Low	5755	40.37	41.93	40.94
High	5795	40.34	40.58	40.45
Worst		40.37	41.93	40.94

**802.11ac VHT20 mode in the 5.8G Band**

Channel	Frequency (MHz)	Ant. 0 26dB Bandwidth (MHz)	Ant. 1 26dB Bandwidth (MHz)	Ant. 2 26dB Bandwidth (MHz)
Low	5745	20.55	19.65	19.95
Middle	5785	35.10	31.40	34.50
High	5825	22.55	21.20	21.29
Worst		35.10	31.40	34.50

802.11ac VHT40 mode in the 5.8G Band

Channel	Frequency (MHz)	Ant. 0 26dB Bandwidth (MHz)	Ant. 1 26dB Bandwidth (MHz)	Ant. 2 26dB Bandwidth (MHz)
Low	5755	41.00	41.15	40.50
High	5795	41.66	41.58	42.91
Worst		41.66	41.58	42.91

802.11ac VHT80 mode in the 5.8G Band

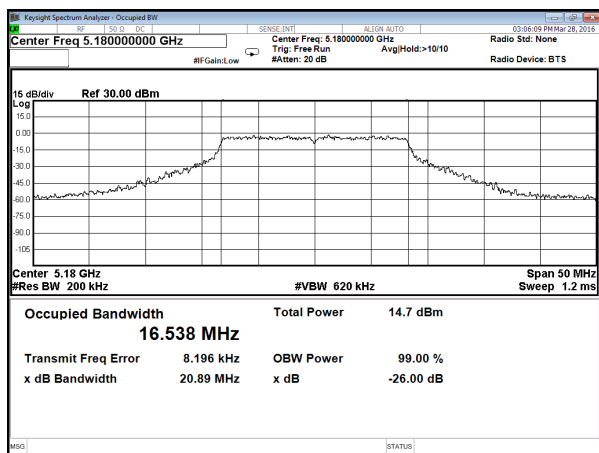
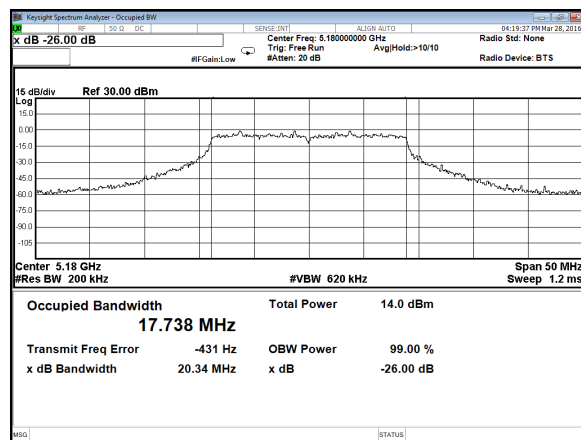
Channel	Frequency (MHz)	Ant. 0 26dB Bandwidth (MHz)	Ant. 1 26dB Bandwidth (MHz)	Ant. 2 26dB Bandwidth (MHz)
Middle	5775	81.41	82.55	82.14
Worst		81.41	82.55	82.14

備註：繪圖資料請參考下頁。

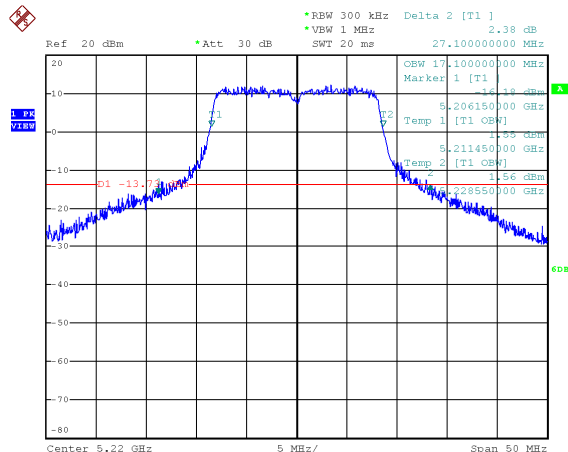


5.2G Band

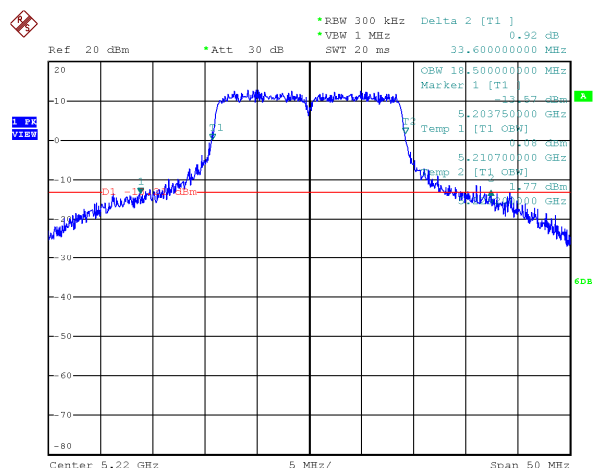
Antenna 0

Modulation Standard: 802.11a (6Mbps)
CH36Modulation Standard: 802.11an HT20 (19.5Mbps)
CH36

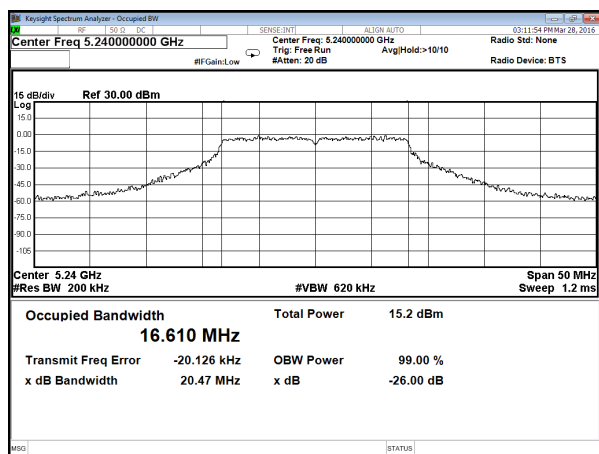
CH44



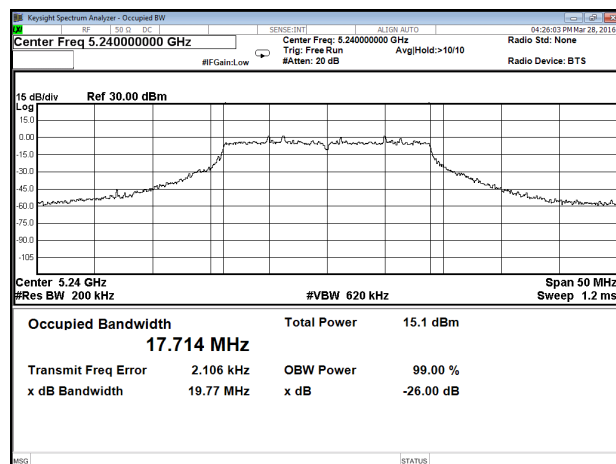
CH44

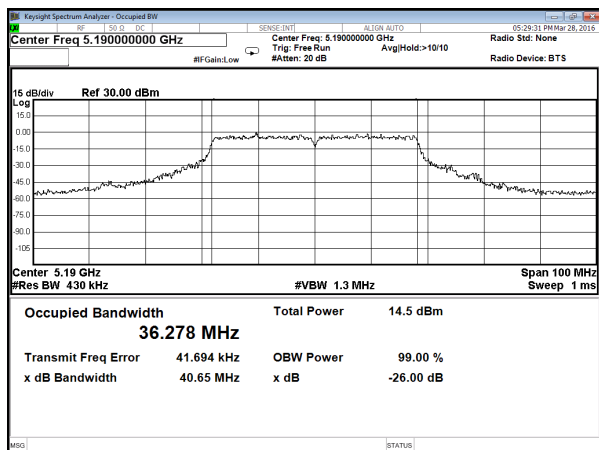
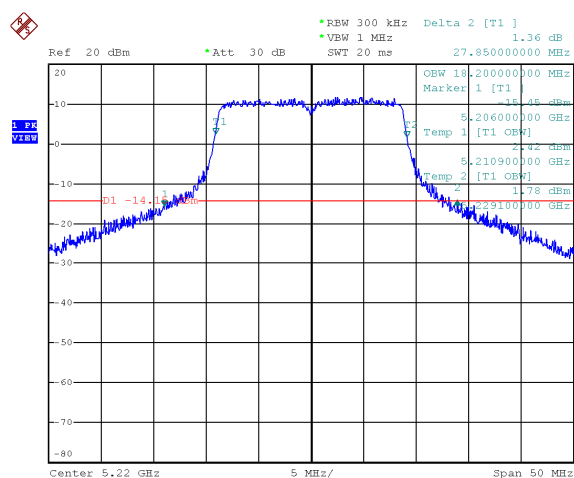


CH48

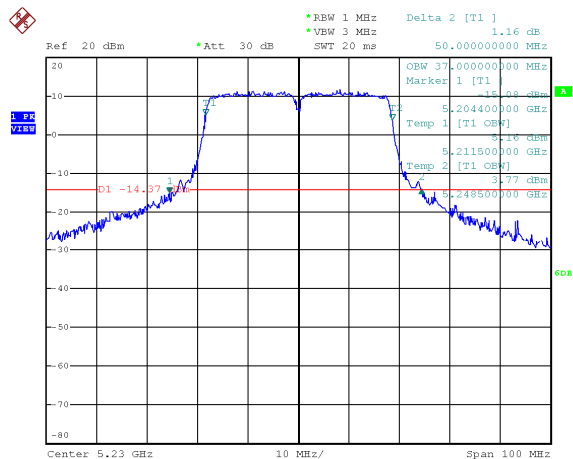


CH48

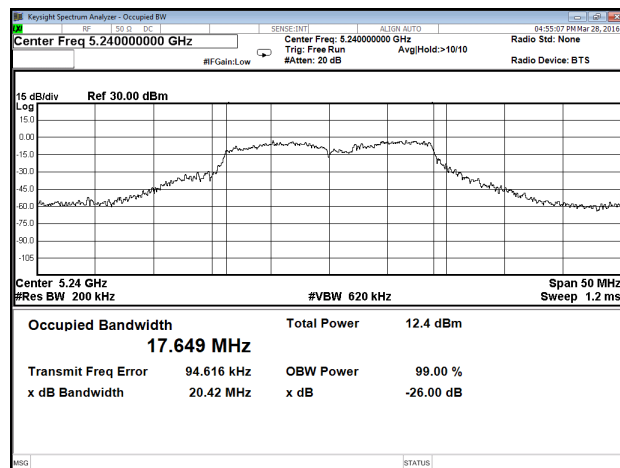
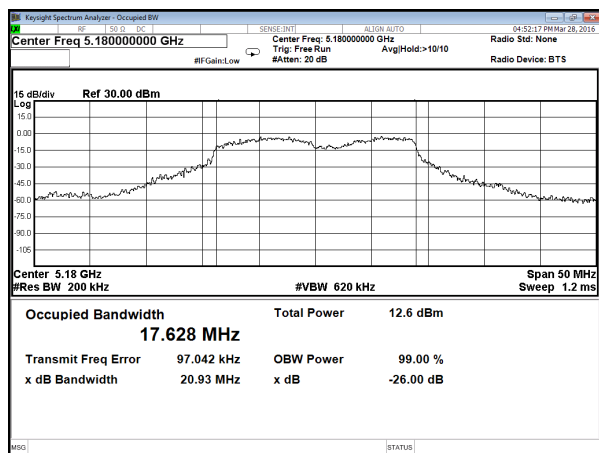
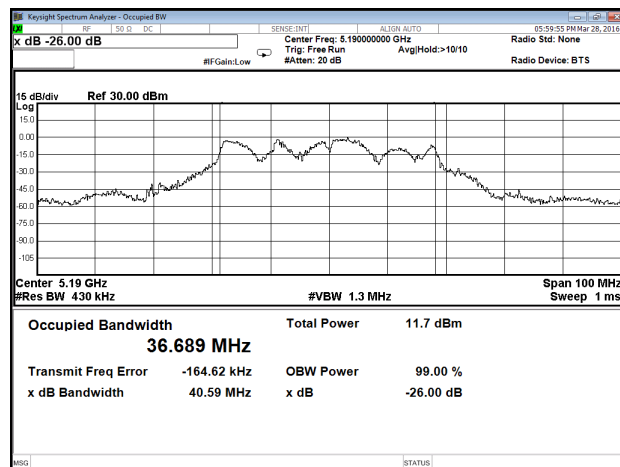


Modulation Standard: 802.11an HT40 (40.5Mbps)
CH38Modulation Standard: 802.11ac VHT20 (6.5Mbps)
CH44

CH46

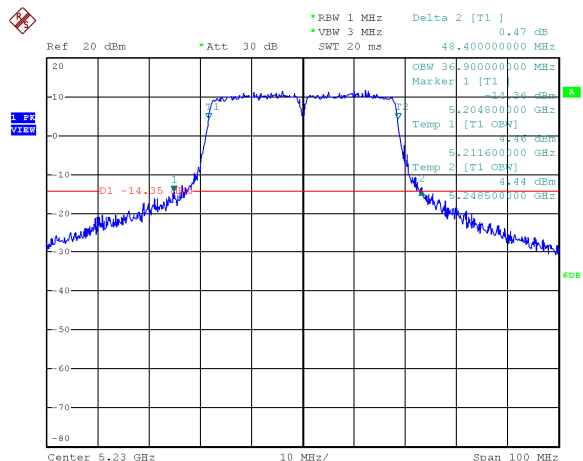


CH48

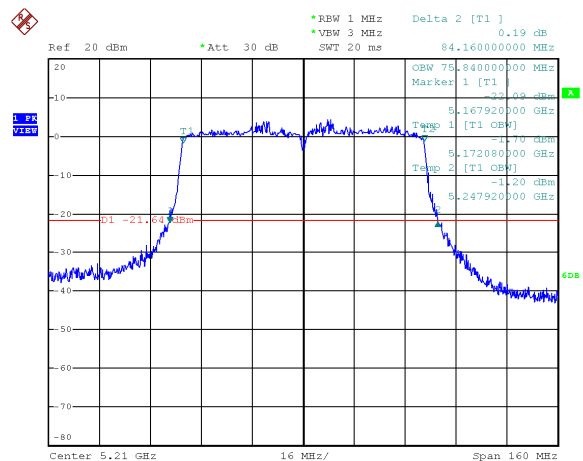
Modulation Standard: 802.11ac VHT20 (6.5Mbps)
CH36Modulation Standard: 802.11ac VHT40 (13.5Mbps)
CH38



Modulation Standard: 802.11ac VHT40 (13.5Mbps)
CH46

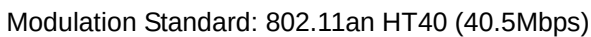
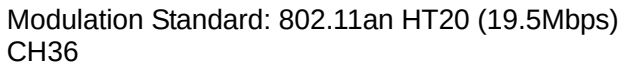


Modulation Standard: 802.11ac VHT80 (29.3Mbps)
CH42





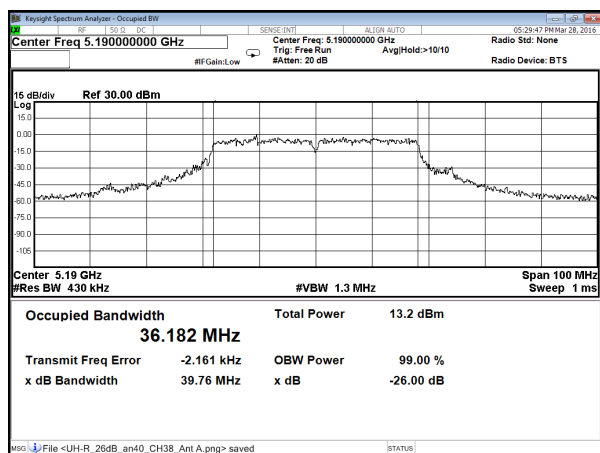
Modulation Standard: 802.11a (6Mbps)
CH36



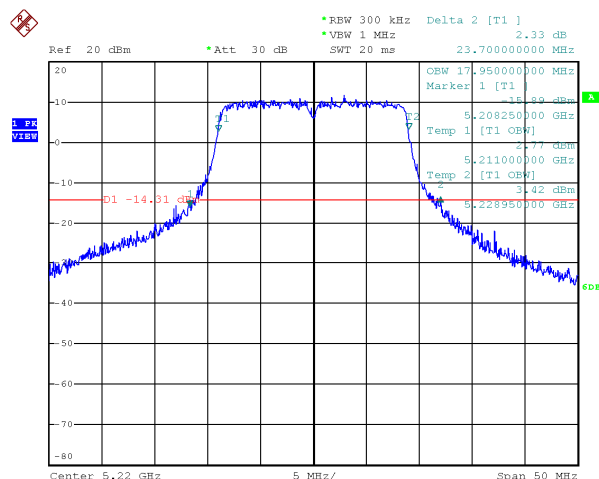
Modulation Standard: 802.11ac VHT20 (6.5Mbps)



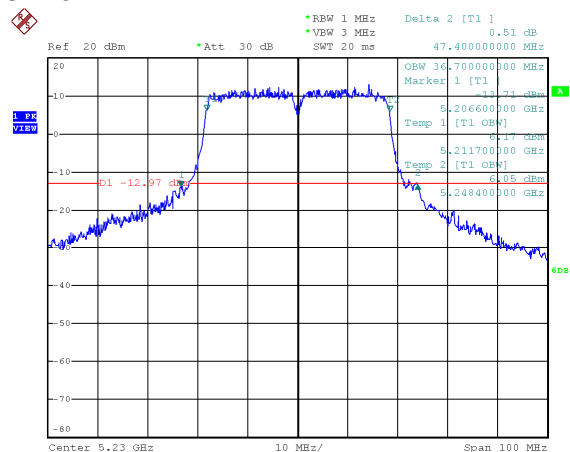
CH38



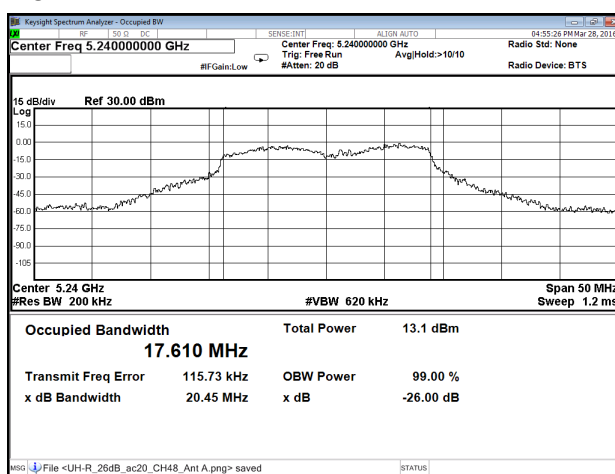
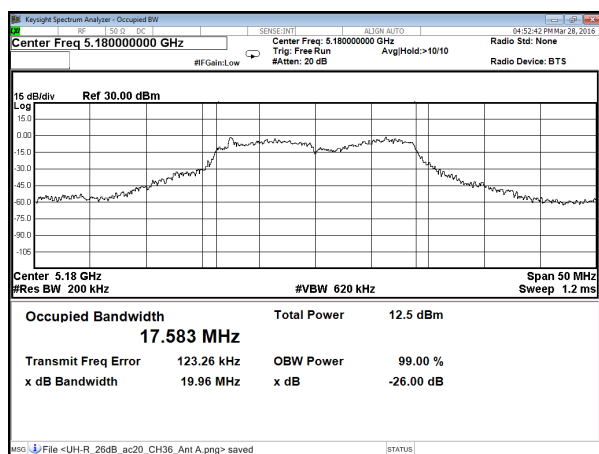
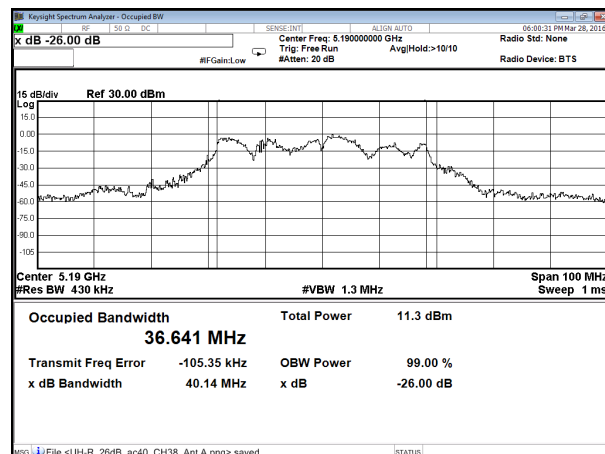
CH44



CH46

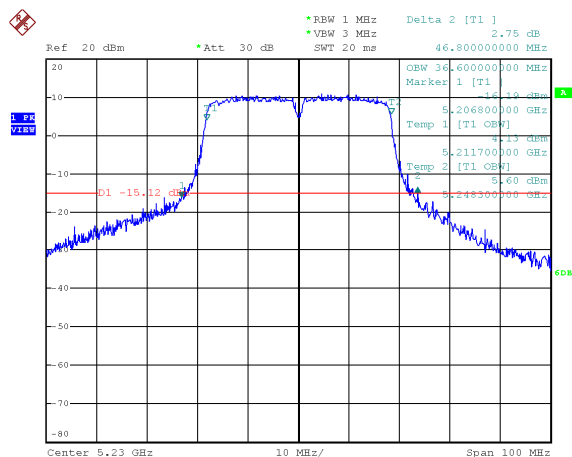


CH48

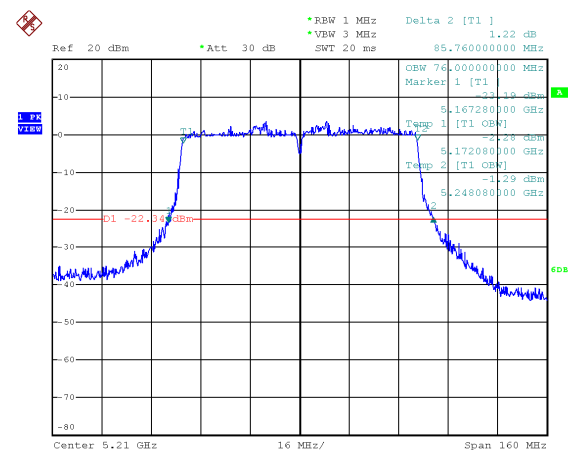
Modulation Standard: 802.11ac VHT20 (6.5Mbps)
CH36Modulation Standard: 802.11ac VHT40 (13.5Mbps)
CH38



Modulation Standard: 802.11ac VHT40 (13.5Mbps) CH46

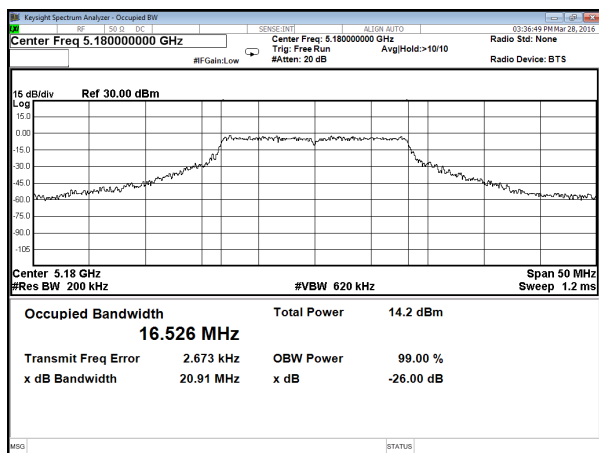
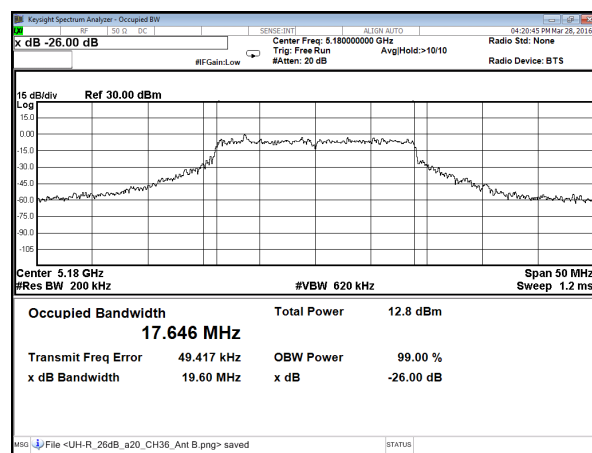


Modulation Standard: 802.11ac VHT80 (29.3Mbps) CH42

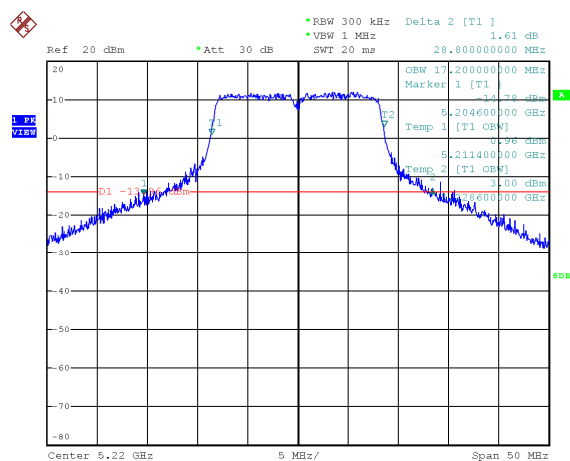




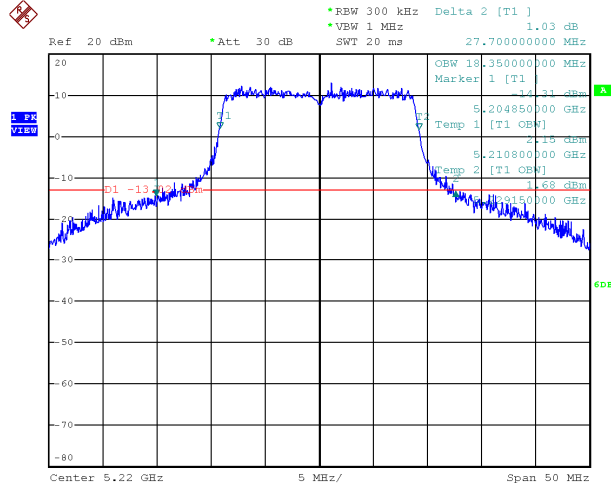
Antenna 2

Modulation Standard: 802.11a (6Mbps)
CH36Modulation Standard: 802.11an HT20 (19.5Mbps)
CH36

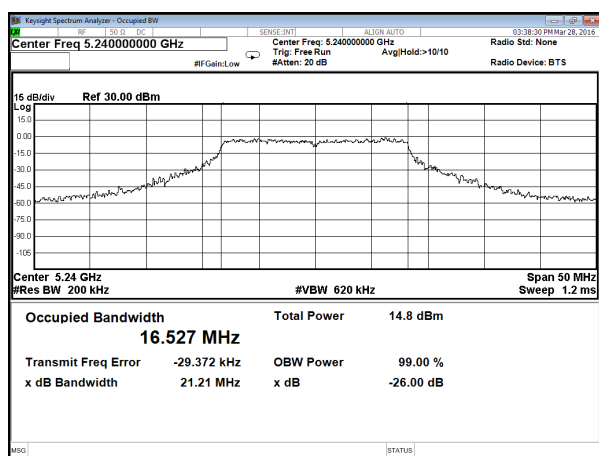
CH44



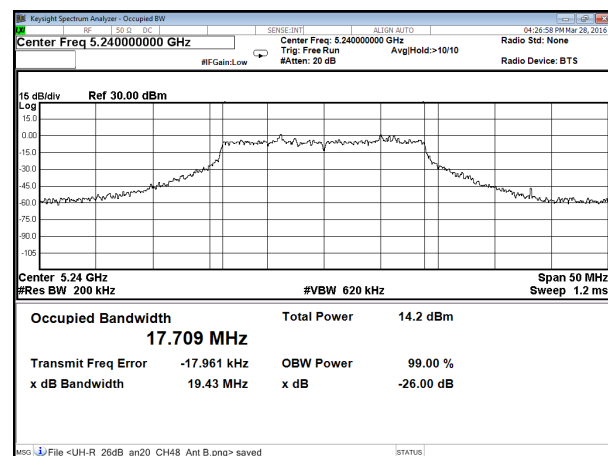
CH44

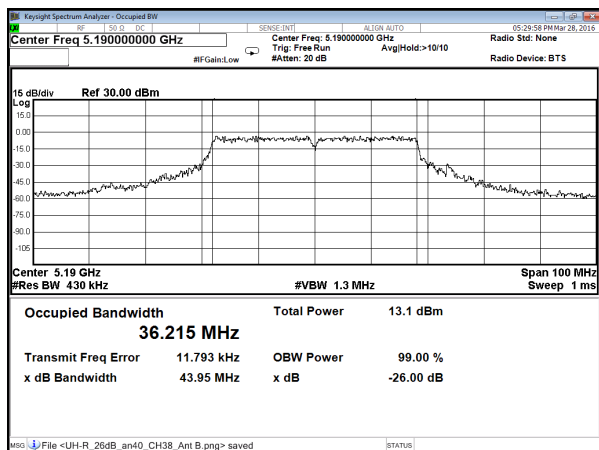
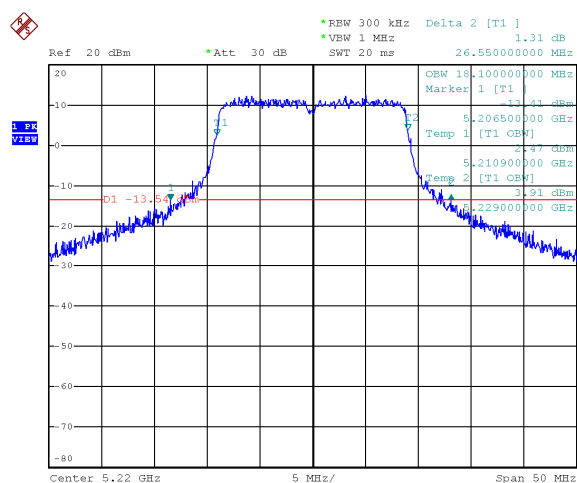


CH48

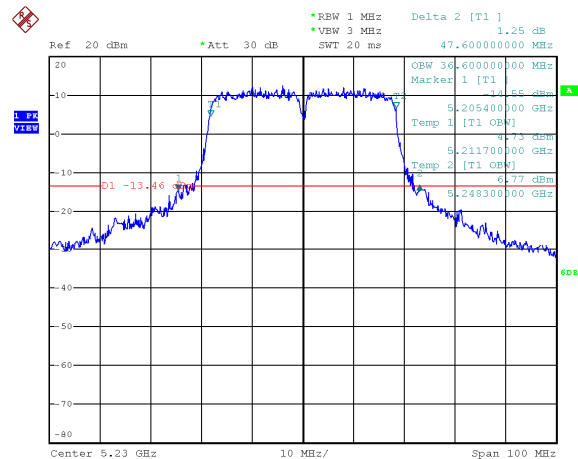


CH48

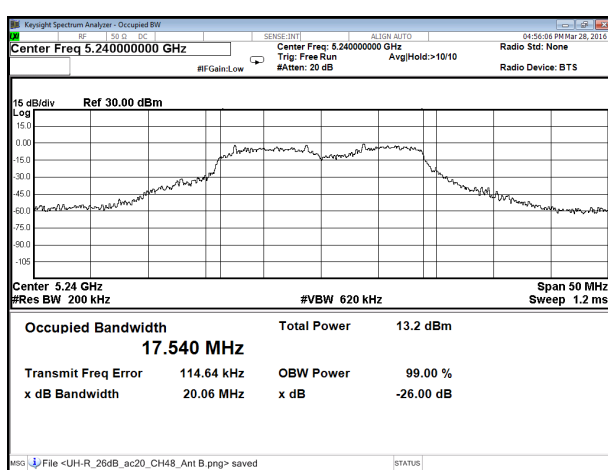
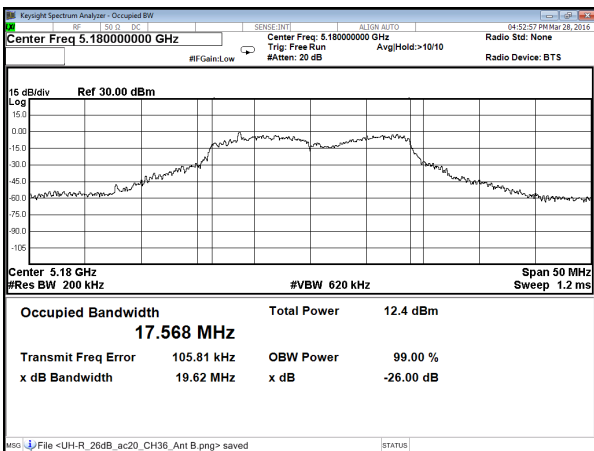
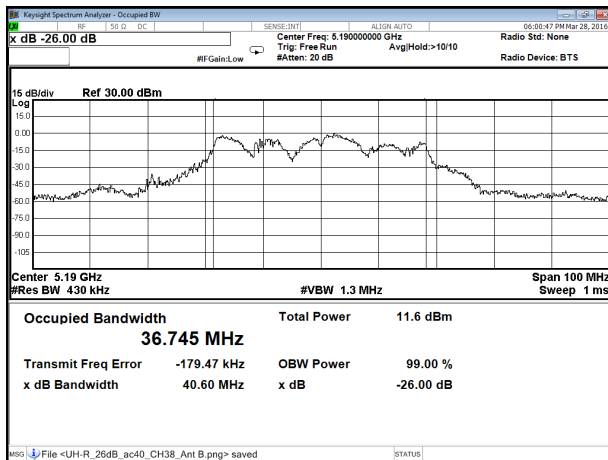


Modulation Standard: 802.11an HT40 (40.5Mbps)
CH38Modulation Standard: 802.11ac VHT20 (6.5Mbps)
CH44

CH46

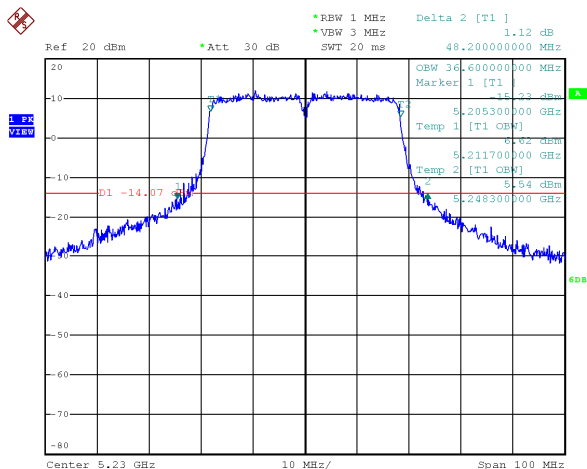


CH48

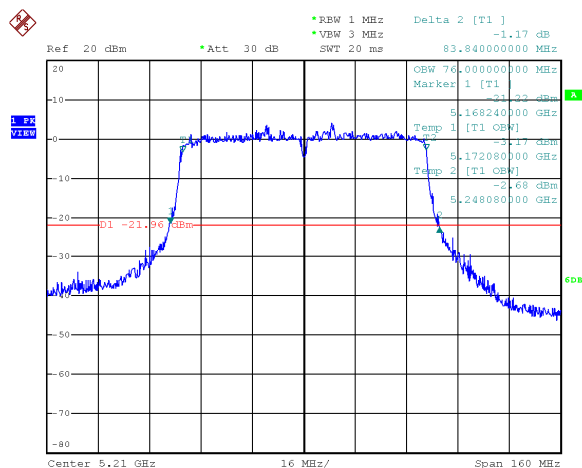
Modulation Standard: 802.11ac VHT20 (6.5Mbps)
CH36Modulation Standard: 802.11ac VHT40 (13.5Mbps)
CH38



Modulation Standard: 802.11ac VHT40 (13.5Mbps)
CH46



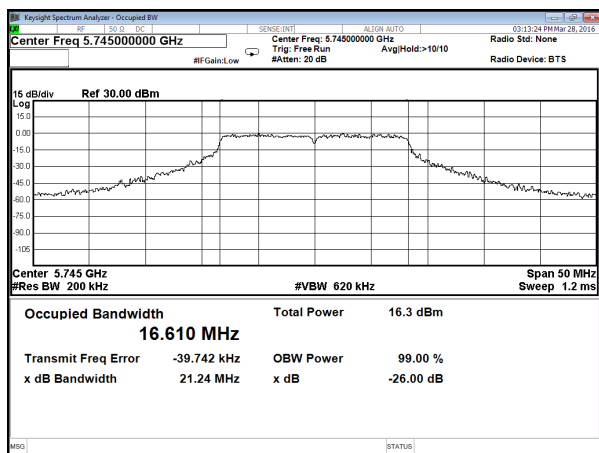
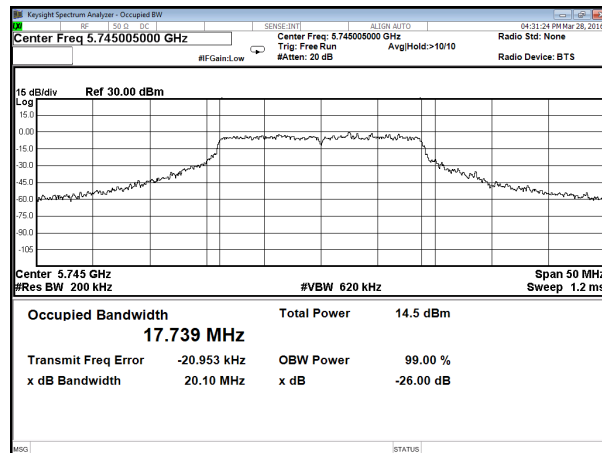
Modulation Standard: 802.11ac VHT80 (29.3Mbps)
CH42



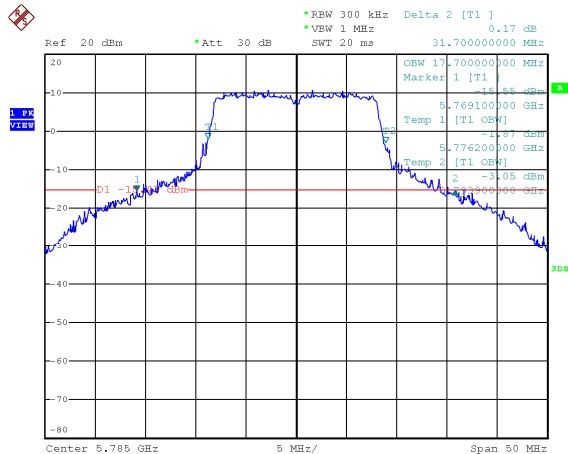


5.8G Band

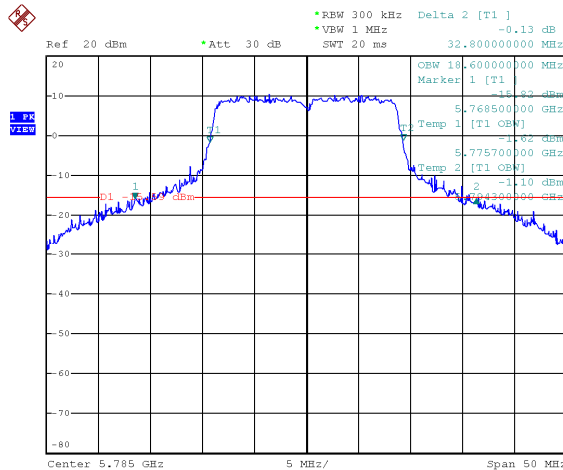
Antenna 0

Modulation Standard: 802.11a (6Mbps)
CH149Modulation Standard: 802.11an HT20 (19.5Mbps)
CH149

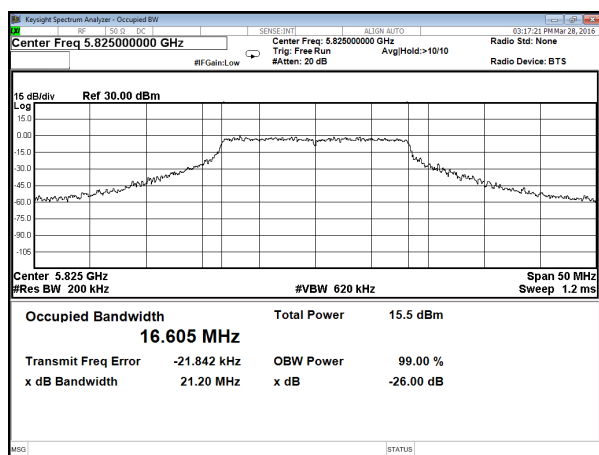
CH157



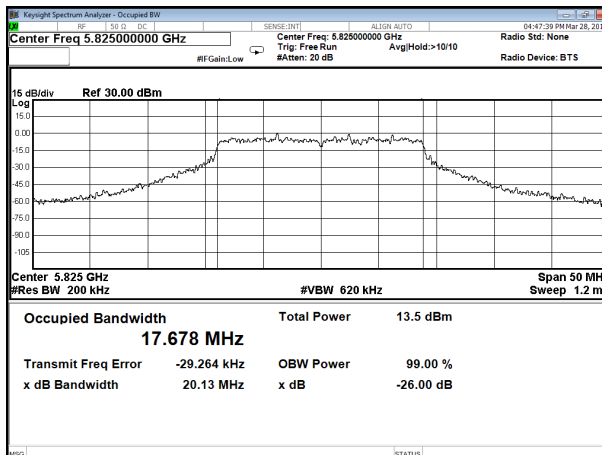
CH157

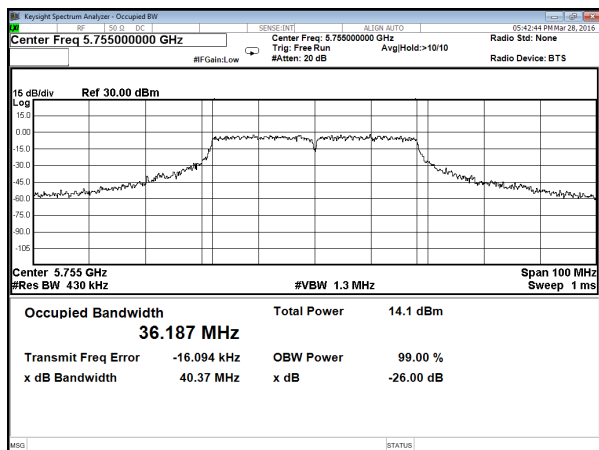
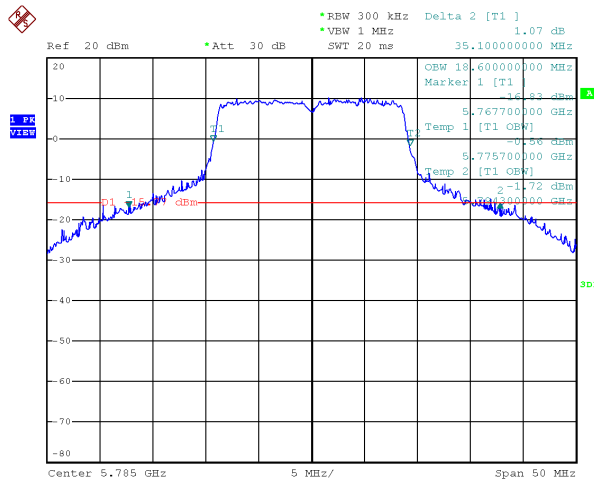


CH165

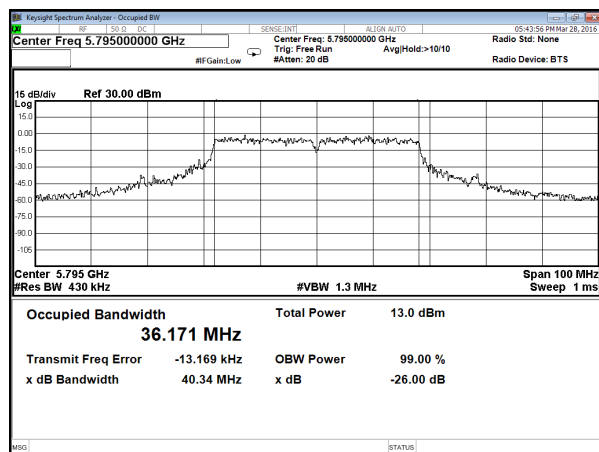


CH165

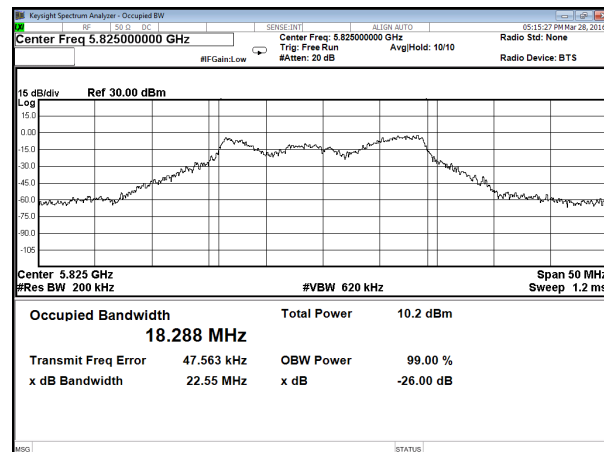
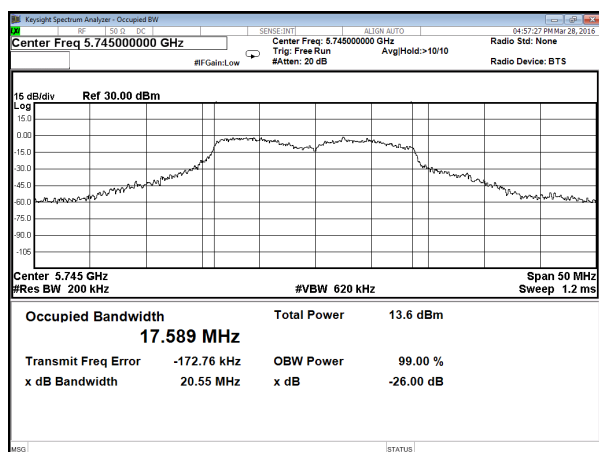
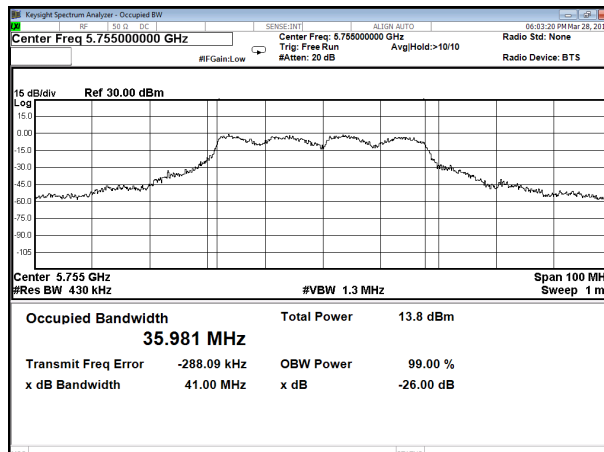


Modulation Standard: 802.11an HT40 (40.5Mbps)
CH151Modulation Standard: 802.11ac VHT20 (6.5Mbps)
CH157

CH159

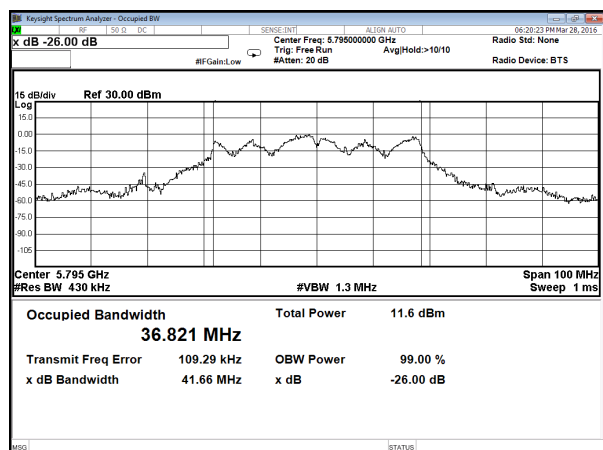


CH165

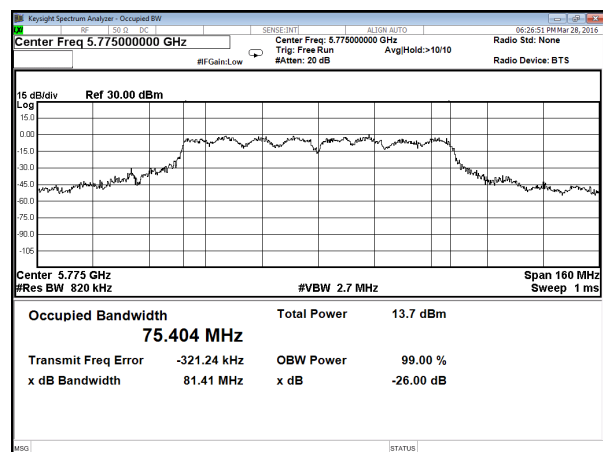
Modulation Standard: 802.11ac VHT20 (6.5Mbps)
CH149Modulation Standard: 802.11ac VHT40 (13.5Mbps)
CH151



Modulation Standard: 802.11ac VHT40 (13.5Mbps)
CH159

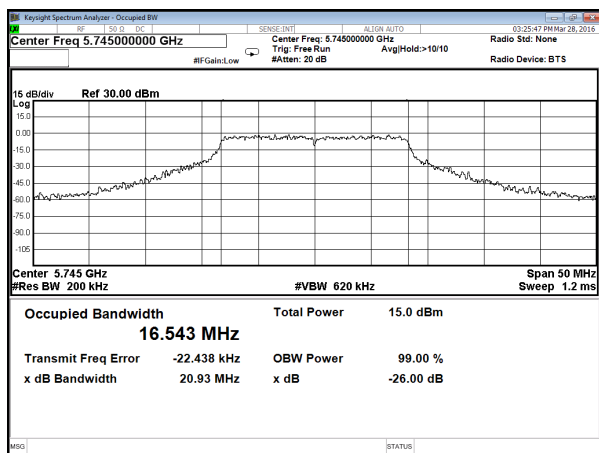
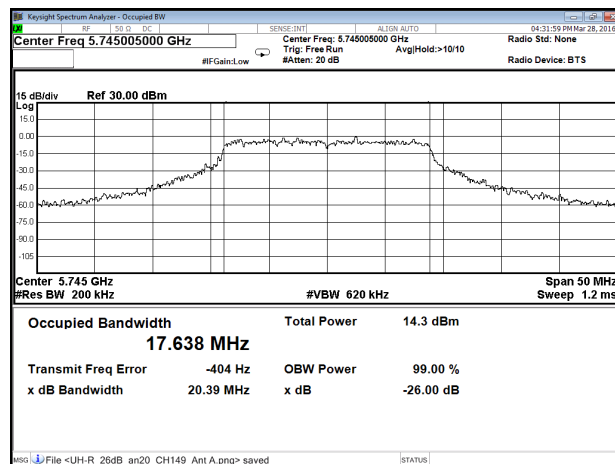


Modulation Standard: 802.11ac VHT80 (29.3Mbps)
CH155

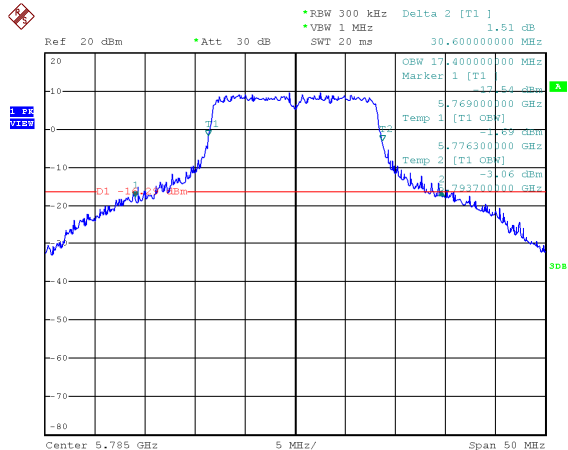




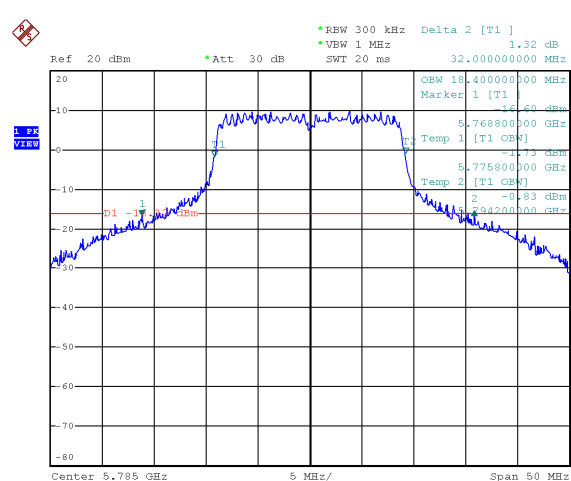
Antenna 1

Modulation Standard: 802.11a (6Mbps)
CH149Modulation Standard: 802.11an HT20 (19.5Mbps)
CH149

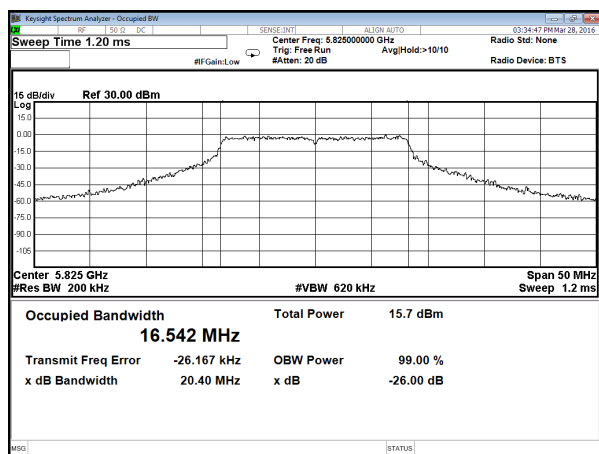
CH157



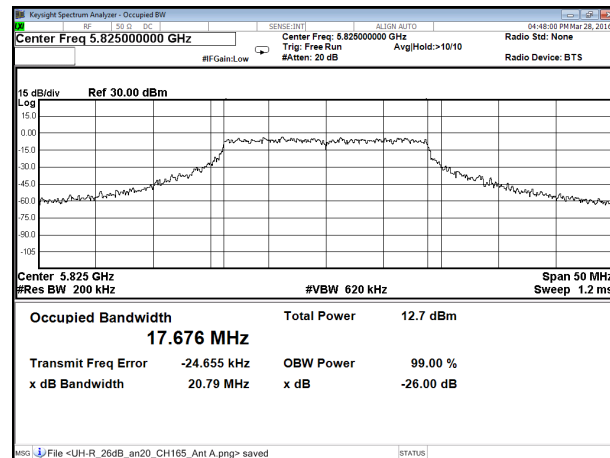
CH157

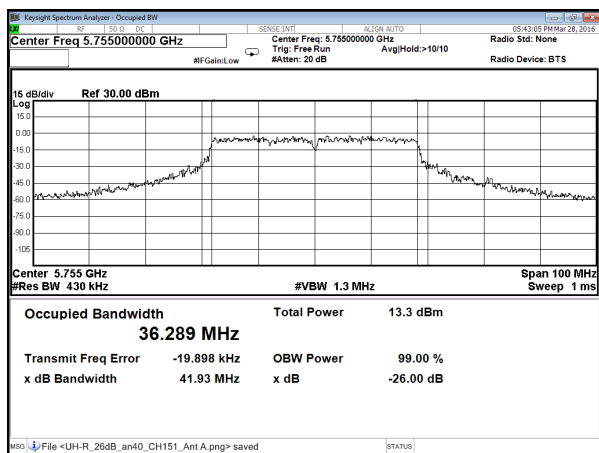
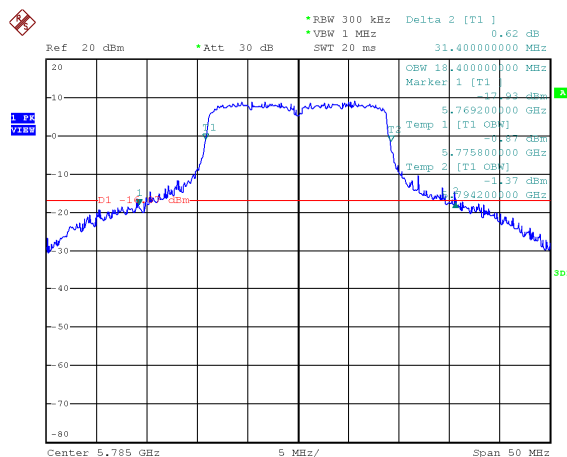


CH165

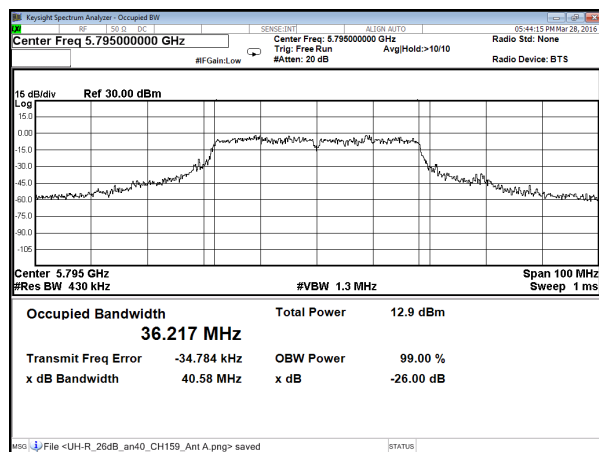


CH165

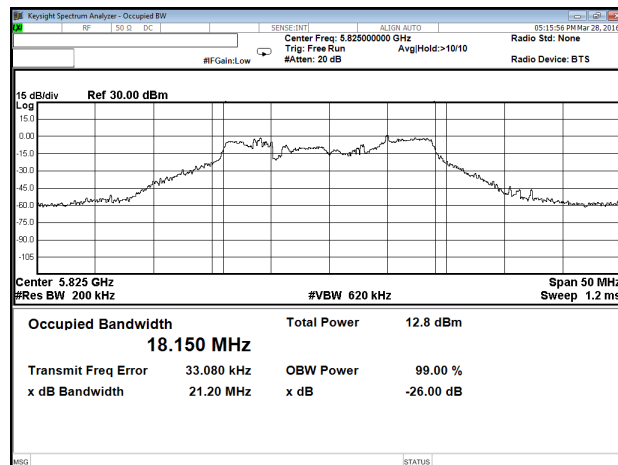
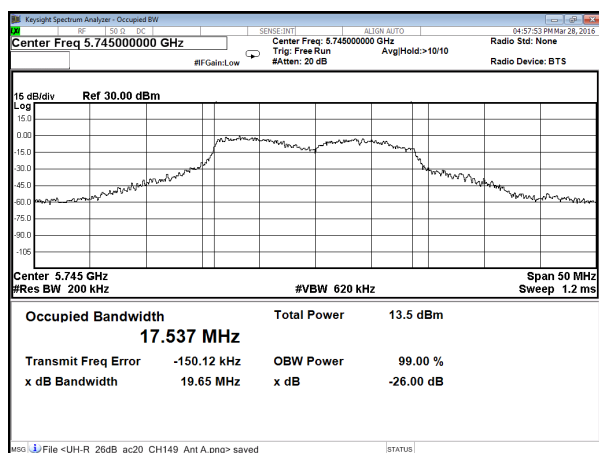
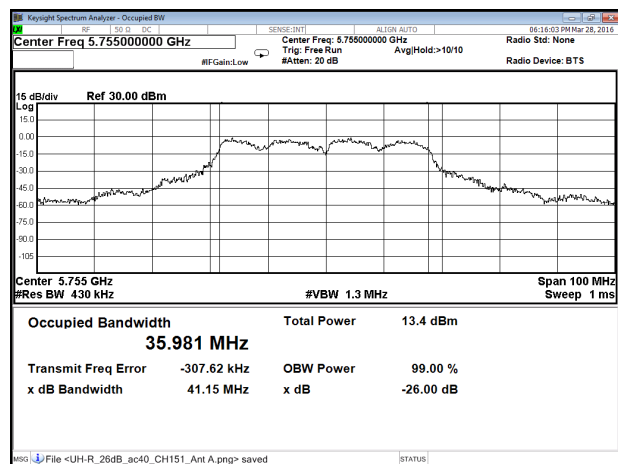


Modulation Standard: 802.11an HT40 (40.5Mbps)
CH151Modulation Standard: 802.11ac VHT20 (6.5Mbps)
CH157

CH159

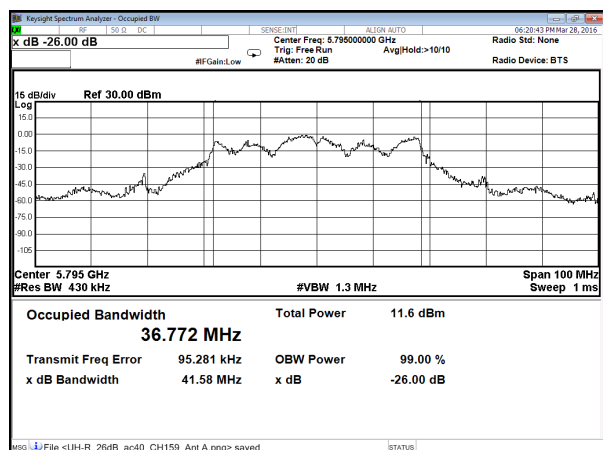


CH165

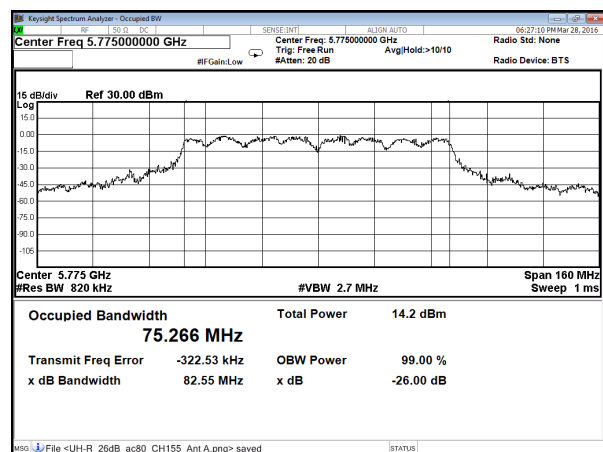
Modulation Standard: 802.11ac VHT20 (6.5Mbps)
CH149Modulation Standard: 802.11ac VHT40 (13.5Mbps)
CH151



Modulation Standard: 802.11ac VHT40 (13.5Mbps)
CH159

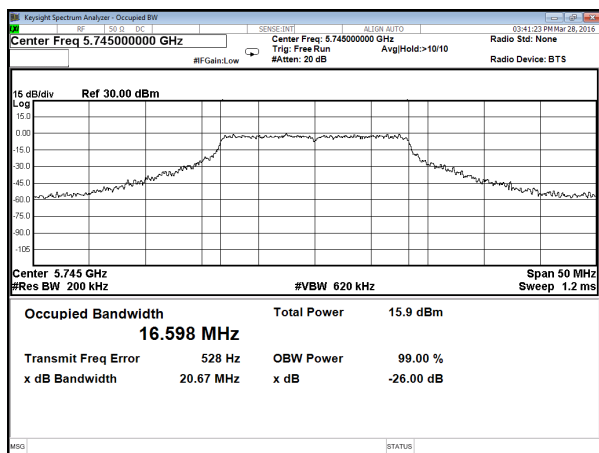
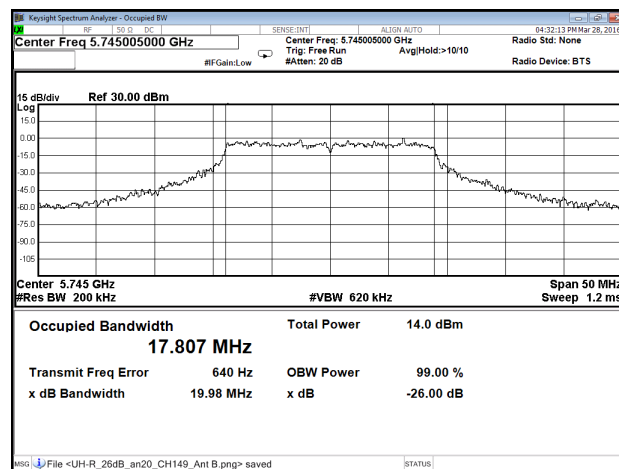


Modulation Standard: 802.11ac VHT80 (29.3Mbps)
CH155

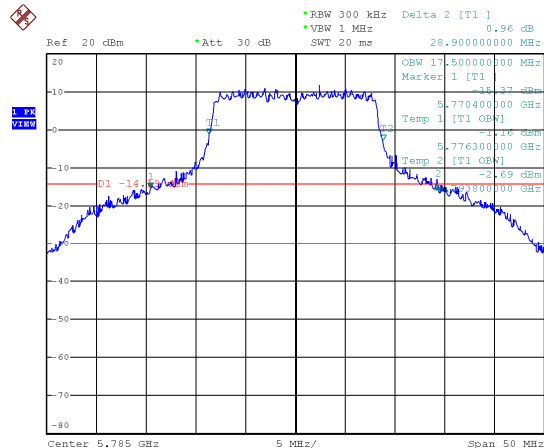




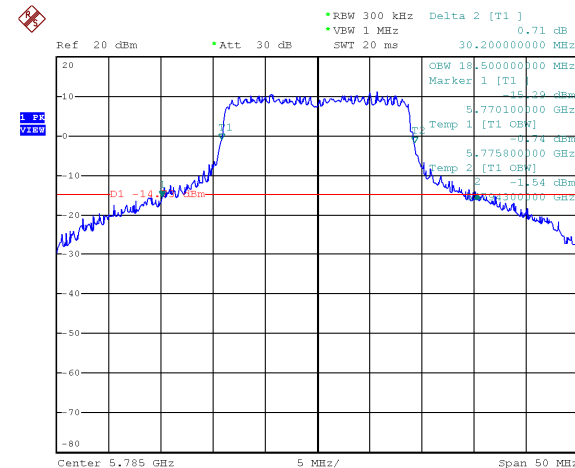
Antenna 2

Modulation Standard: 802.11a (6Mbps)
CH149Modulation Standard: 802.11an HT20 (19.5Mbps)
CH149

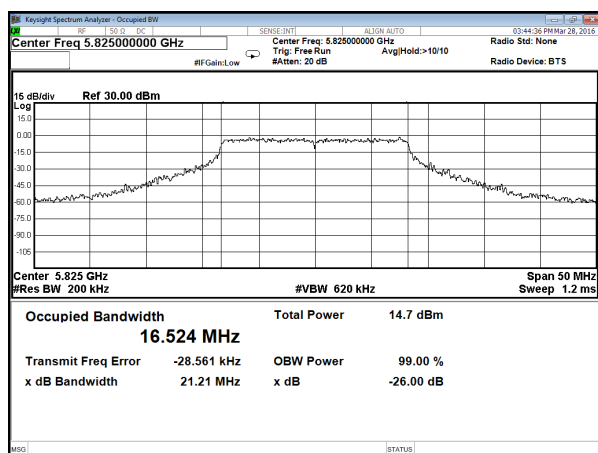
CH157



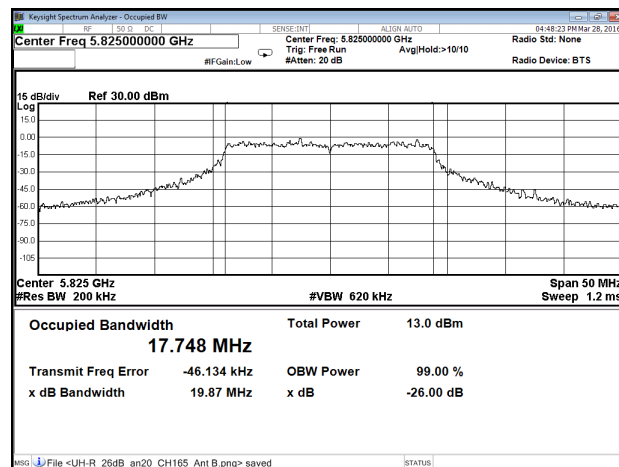
CH157

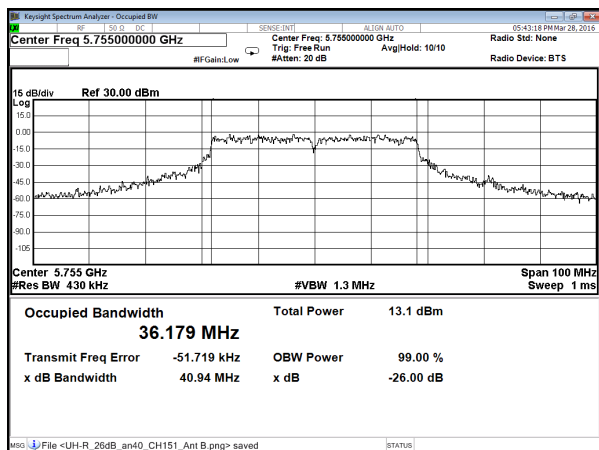
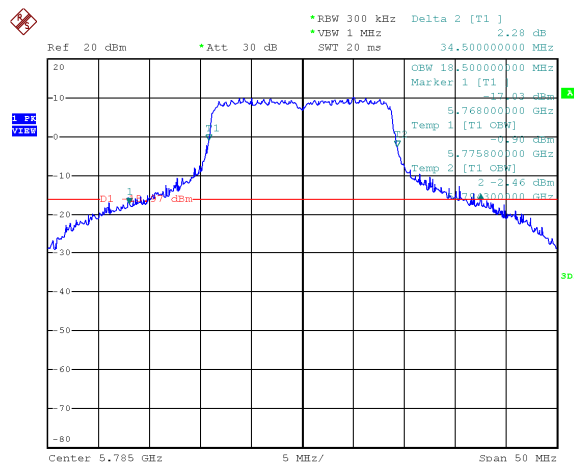


CH165

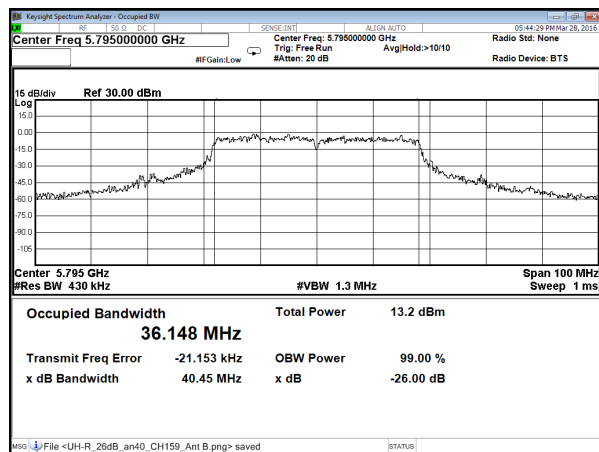


CH165

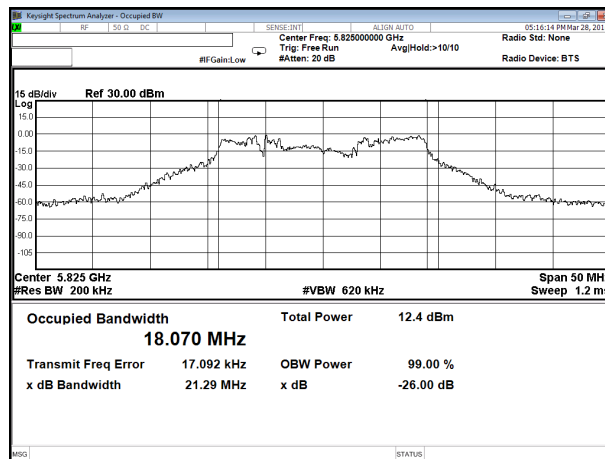
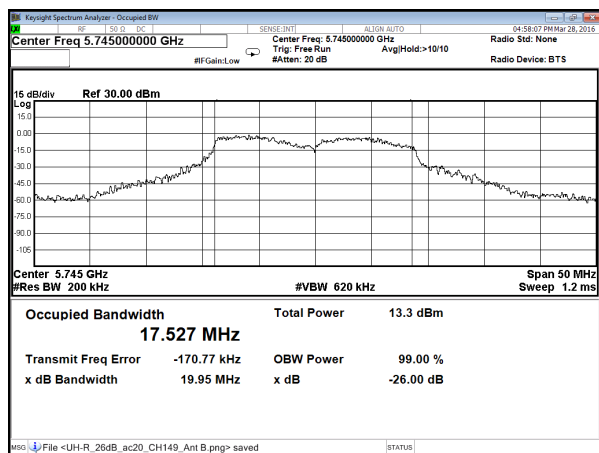
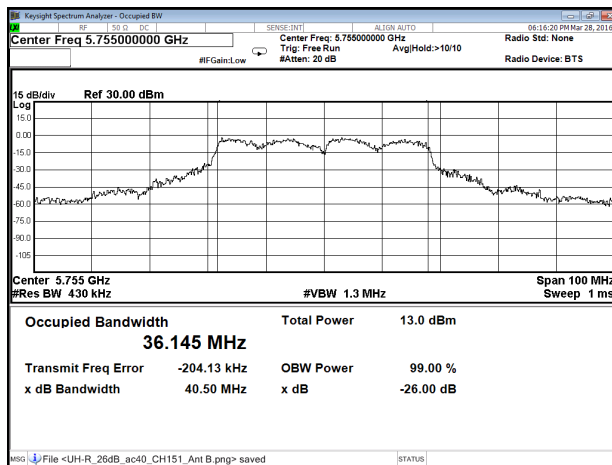


Modulation Standard: 802.11an HT40 (40.5Mbps)
CH151Modulation Standard: 802.11ac VHT20 (6.5Mbps)
CH157

CH159

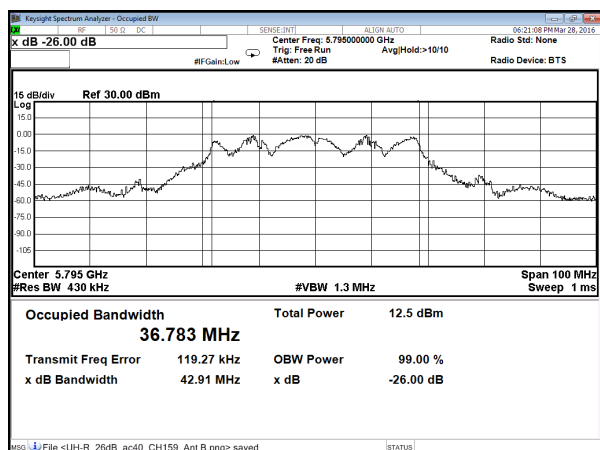


CH165

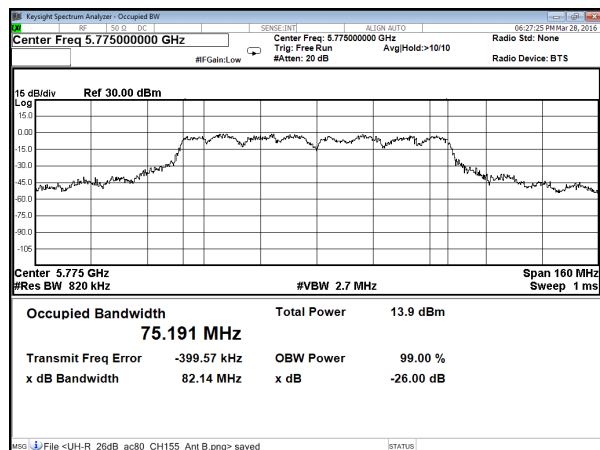
Modulation Standard: 802.11ac VHT20 (6.5Mbps)
CH149Modulation Standard: 802.11ac VHT40 (13.5Mbps)
CH151



Modulation Standard: 802.11ac VHT40 (13.5Mbps)
CH159



Modulation Standard: 802.11ac VHT80 (29.3Mbps)
CH155





10. 傳導輸出功率

10.1. 適用標準

依照國家通訊傳播委員會低功率射頻電機技術規範(4.7.3)節功率限制規定如下:

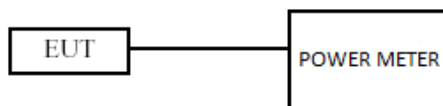
操作於 5.15G-5.25G 頻段者	
☐	供戶外操作使用：最大傳導輸出功率應小於 1W。
☒	供室內操作使用：最大傳導輸出功率應小於 1W。
☐	供固定式點對點操作使用：最大傳導輸出功率應小於 1W。
☐	供用戶端裝置(Client Device)操作使用：最大傳導輸出功率應小於 250mW。
操作於 5.25G-5.35G 與 5.470G-5.725G 頻段者 最大傳導輸出功率應小於 250mW 或 $11\text{dBm} + 10\log B$ (B 是 26dB 發射頻寬，單位 MHz) 之較小者。	
操作於 5.725G-5.850G 頻段者 最大傳導輸出功率應小於 1W。	

10.2. 測試方法

The transmitter output is connected to a power meter.

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

10.3. 測試配置





10.4.測試結果及數據

Test Result : PASS

Temperature : 21°C

Test Date : Nov. 24, 2017

Humidity : 55%

802.11a mode in the 5.2G Band

Rate	Setting	Channel	Frequency	Avg Power Output (dBm)		
			(MHz)	ANT 0	ANT 1	ANT 2
6M	12	36	5180	11.93	11.15	11.54
	21	44	5220	21.88	20.87	21.66
	12	48	5240	11.94	11.32	11.64

Output Power Results									
Channel	Frequency (MHz)	Meas Power (dBm)				Total Corr'd Power (dBm)			
		ANT 0	ANT 1	ANT 2	ANT 0+1+2	ANT 0	ANT1	ANT2	ANT 0+1+2
Low	5180	11.93	11.15	11.54	16.32	12.10	11.32	11.71	16.50
Middle	5220	21.88	20.87	21.66	26.26	22.05	21.04	21.83	26.44
High	5240	11.94	11.32	11.64	16.41	12.11	11.49	11.81	16.59

Limit			
Channel	Frequency (MHz)	Power Limit (dBm)	Power Margin (dBm)
Low	5180	30.00	-13.50
Middle	5220	30.00	-3.56
High	5240	30.00	-13.41

**802.11n HT20 mode in the 5.2G Band**

Rate	Setting	Channel	Frequency	Avg Power Output (dBm)		
			(MHz)	ANT 0	ANT 1	ANT 2
MCS16	11	36	5180	11.79	11.42	11.46
	21	44	5220	22.21	20.98	21.05
	11	48	5240	11.58	11.71	11.74

Output Power Results									
Channel	Frequency (MHz)	Meas Power (dBm)				Total Corr'd Power (dBm)			
		ANT 0	ANT 1	ANT 2	ANT 0+1+2	ANT 0	ANT1	ANT2	ANT 0+1+2
Low	5180	11.79	11.42	11.46	16.33	12.30	11.93	11.97	16.84
Middle	5220	22.21	20.98	21.05	26.22	22.72	21.49	21.56	26.73
High	5240	11.58	11.71	11.74	16.45	12.09	12.22	12.25	16.96

Limit			
Channel	Frequency (MHz)	Power Limit (dBm)	Power Margin (dBm)
Low	5180	30.00	-13.16
Middle	5220	30.00	-3.27
High	5240	30.00	-13.04

**802.11n HT40 mode in the 5.2G Band**

Rate	Setting	Channel	Frequency	Avg Power Output (dBm)		
			(MHz)	ANT 0	ANT 1	ANT 2
MCS16	11	38	5190	11.46	10.89	10.56
	21	46	5230	21.76	21.02	21.44

Output Power Results									
Channel	Frequency (MHz)	Meas Power (dBm)				Total Corr'd Power (dBm)			
		ANT 0	ANT 1	ANT 2	ANT 0+1+2	ANT 0	ANT1	ANT2	ANT 0+1+2
Low	5190	11.46	10.89	10.56	15.76	12.45	11.88	11.55	16.75
Middle	5230	21.76	21.02	21.44	26.19	22.75	22.01	22.43	27.18

Limit			
Channel	Frequency (MHz)	Power Limit (dBm)	Power Margin (dBm)
Low	5190	30.00	-13.25
Middle	5230	30.00	-2.82

**802.11ac VHT20 mode in the 5.2G Band**

Rate	Setting	Channel	Frequency	Avg Power Output (dBm)		
			(MHz)	ANT 0	ANT 1	ANT 2
MCS0-NSS3	11	36	5180	10.54	10.89	11.52
	21	44	5220	21.96	20.92	21.66
	11	48	5240	10.77	10.69	11.64

Output Power Results									
Channel	Frequency (MHz)	Meas Power (dBm)				Total Corr'd Power (dBm)			
		ANT 0	ANT 1	ANT 2	ANT 0+1+2	ANT 0	ANT1	ANT2	ANT 0+1+2
Low	5180	10.54	10.89	11.52	15.77	10.72	11.07	11.70	15.96
Middle	5220	21.96	20.92	21.66	26.31	22.14	21.10	21.84	26.49
High	5240	10.77	10.69	11.64	15.83	10.95	10.87	11.82	16.01

Limit			
Channel	Frequency (MHz)	Power Limit (dBm)	Power Margin (dBm)
Low	5180	30.00	-14.04
Middle	5220	30.00	-3.51
High	5240	30.00	-13.99

**802.11ac VHT40 mode in the 5.2G Band**

Rate	Setting	Channel	Frequency	Avg Power Output (dBm)		
			(MHz)	ANT 0	ANT 1	ANT 2
MCS0-NSS3	11	38	5190	10.88	10.95	11.63
	21	46	5230	21.67	20.73	21.37

Output Power Results									
Channel	Frequency (MHz)	Meas Power (dBm)				Total Corr'd Power (dBm)			
		ANT 0	ANT 1	ANT 2	ANT 0+1+2	ANT 0	ANT1	ANT2	ANT 0+1+2
Low	5190	10.88	10.95	11.63	15.94	11.27	11.34	12.02	16.33
Middle	5230	21.67	20.73	21.37	26.05	22.06	21.12	21.76	26.43

Limit			
Channel	Frequency (MHz)	Power Limit (dBm)	Power Margin (dBm)
Low	5190	30.00	-13.67
Middle	5230	30.00	-3.57

**802.11ac VHT80 mode in the 5.2G Band**

Rate	Setting	Channel	Frequency	Avg Power Output (dBm)		
			(MHz)	ANT 0	ANT 1	ANT 2
MCS0-NSS3	15	42	5210	16.02	14.97	14.87

Output Power Results									
Channel	Frequency (MHz)	Meas Power (dBm)				Total Corr'd Power (dBm)			
		ANT 0	ANT 1	ANT 2	ANT 0+1+2	ANT 0	ANT1	ANT2	ANT 0+1+2
Low	5210	16.02	14.97	14.87	20.09	16.76	15.71	15.61	20.83

Limit			
Channel	Frequency (MHz)	Power Limit (dBm)	Power Margin (dBm)
Low	5210	30.00	-9.17

**802.11a mode in the 5.8G Band**

Rate	Setting	Channel	Frequency	Avg Power Output (dBm)		
			(MHz)	ANT 0	ANT 1	ANT 2
6M	11.5	149	5745	11.97	11.07	11.92
	21	157	5785	21.83	20.77	21.23
	11.5	165	5825	11.69	11.21	11.69

Output Power Results									
Channel	Frequency (MHz)	Meas Power (dBm)				Total Corr'd Power (dBm)			
		ANT 0	ANT 1	ANT 2	ANT 0+1+2	ANT 0	ANT1	ANT2	ANT 0+1+2
Low	5745	11.97	11.07	11.92	16.44	12.14	11.24	12.09	16.62
Middle	5785	21.83	20.77	21.23	26.07	22.00	20.94	21.40	26.24
High	5825	11.69	11.21	11.69	16.31	11.86	11.38	11.86	16.48

Limit			
Channel	Frequency (MHz)	Power Limit (dBm)	Power Margin (dBm)
Low	5180	30.00	-13.38
Middle	5220	30.00	-3.76
High	5240	30.00	-13.52

**802.11n HT20 mode in the 5.8G Band**

Rate	Setting	Channel	Frequency	Avg Power Output (dBm)		
			(MHz)	ANT 0	ANT 1	ANT 2
MCS16	11	149	5745	11.36	11.46	11.76
	21	157	5785	21.83	20.51	21.36
	11	165	5825	11.54	11.14	11.16

Output Power Results									
Channel	Frequency (MHz)	Meas Power (dBm)				Total Corr'd Power (dBm)			
		ANT 0	ANT 1	ANT 2	ANT 0+1+2	ANT 0	ANT1	ANT2	ANT 0+1+2
Low	5745	11.36	11.46	11.76	16.30	11.87	11.97	12.27	16.81
Middle	5785	21.83	20.51	21.36	26.04	22.34	21.02	21.87	26.55
High	5825	11.54	11.14	11.16	16.06	12.05	11.65	11.67	16.56

Limit			
Channel	Frequency (MHz)	Power Limit (dBm)	Power Margin (dBm)
Low	5180	30.00	-13.19
Middle	5220	30.00	-3.45
High	5240	30.00	-13.44

**802.11n HT40 mode in the 5.8G Band**

Rate	Setting	Channel	Frequency	Avg Power Output (dBm)		
			(MHz)	ANT 0	ANT 1	ANT 2
MCS16	11	151	5755	11.95	11.3	11.47
	11	159	5795	11.91	11.81	11.22

Output Power Results									
Channel	Frequency (MHz)	Meas Power (dBm)				Total Corr'd Power (dBm)			
		ANT 0	ANT 1	ANT 2	ANT 0+1+2	ANT 0	ANT1	ANT2	ANT 0+1+2
Low	5755	11.95	11.3	11.47	16.35	12.94	12.29	12.46	17.35
Middle	5795	11.91	11.81	11.22	16.43	12.90	12.80	12.21	17.42

Limit			
Channel	Frequency (MHz)	Power Limit (dBm)	Power Margin (dBm)
Low	5190	30.00	-12.65
Middle	5230	30.00	-12.58

**802.11ac VHT20 mode in the 5.8G Band**

Rate	Setting	Channel	Frequency	Avg Power Output (dBm)		
			(MHz)	ANT 0	ANT 1	ANT 2
MCS0-NSS3	11	149	5745	11.78	11.42	12.78
	21	157	5785	21.71	20.71	21.62
	11	165	5825	11.52	11.17	12.69

Output Power Results									
Channel	Frequency (MHz)	Meas Power (dBm)				Total Corr'd Power (dBm)			
		ANT 0	ANT 1	ANT 2	ANT 0+1+2	ANT 0	ANT1	ANT2	ANT 0+1+2
Low	5745	11.78	11.42	12.78	16.80	11.96	11.60	12.96	16.99
Middle	5785	21.71	20.71	21.62	26.14	21.89	20.89	21.80	26.33
High	5825	11.52	11.17	12.69	16.61	11.70	11.35	12.87	16.80

Limit			
Channel	Frequency (MHz)	Power Limit (dBm)	Power Margin (dBm)
Low	5180	30.00	-13.01
Middle	5220	30.00	-3.67
High	5240	30.00	-13.20

**802.11ac VHT40 mode in the 5.8G Band**

Rate	Setting	Channel	Frequency	Avg Power Output (dBm)		
			(MHz)	ANT 0	ANT 1	ANT 2
MCS0-NSS3	11	151	5755	10.58	10.85	11.64
	11	159	5795	10.94	10.64	11.43

Output Power Results									
Channel	Frequency (MHz)	Meas Power (dBm)				Total Corr'd Power (dBm)			
		ANT 0	ANT 1	ANT 2	ANT 0+1+2	ANT 0	ANT1	ANT2	ANT 0+1+2
Low	5755	10.58	10.85	11.64	15.82	10.97	11.24	12.03	16.21
Middle	5795	10.94	10.64	11.43	15.79	11.33	11.03	11.82	16.18

Limit			
Channel	Frequency (MHz)	Power Limit (dBm)	Power Margin (dBm)
Low	5190	30.00	-13.79
Middle	5230	30.00	-13.82

**802.11ac VHT80 mode in the 5.8G Band**

Rate	Setting	Channel	Frequency	Avg Power Output (dBm)		
			(MHz)	ANT 0	ANT 1	ANT 2
MCS0-NSS3	11	155	5775	10.03	10.38	11.24

Output Power Results									
Channel	Frequency (MHz)	Meas Power (dBm)				Total Corr'd Power (dBm)			
		ANT 0	ANT 1	ANT 2	ANT 0+1+2	ANT 0	ANT1	ANT2	ANT 0+1+2
Low	5775	10.03	10.38	11.24	15.35	10.77	11.12	11.98	16.09

Limit			
Channel	Frequency (MHz)	Power Limit (dBm)	Power Margin (dBm)
Low	5210	30.00	-13.91



11. 最大功率頻譜密度

11.1. 適用標準

依照國家通訊傳播委員會低功率射頻電機技術規範(4.7.3)節功率限制規定如下:

操作於 5.15G-5.25G 頻段者	
☐	供戶外操作使用：在任何 1MHz 頻帶中最大功率頻譜密度應小於或等於 17dBm。
☒	供室內操作使用：在任何 1MHz 頻帶中最大功率頻譜密度應小於或等於 17dBm。
☐	供固定式點對點操作使用：在任何 1MHz 頻帶中最大功率頻譜密度應小於或等 17dBm。
☐	供用戶端裝置(Client Device)操作使用：在任何 1MHz 頻帶中最大功率頻譜密度應小於或等於 11dBm。
操作於 5.25G-5.35G 與 5.470G-5.725G 頻段者 在任何 1MHz 頻帶中最大功率頻譜密度應小於或等於 11Bm。	
操作於 5.725G-5.850G 頻段者 在任何 500KHz 頻帶中最大功率頻譜密度應小於或等於 30Bm。	

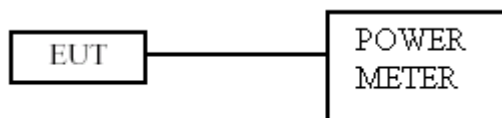


11.2.測試方法

依照KDB 789033 D02 General UNII Test Procedures New Rules測試方法如下

For 5150~5250 MHz	
☐	Method SA-1 (Duty Cycle>98%) 1. Set RBW = 1 MHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS. 2. Trace average 100 traces. 3. Use the peak marker function to determine the maximum amplitude level.
☒	Method SA-2 Alternative (Duty Cycle <98%) 1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS. 2. Set sweep time $\geq 10 * (\text{number of points in sweep}) * (\text{total on/off period of the transmitted signal})$. 3. Perform a single sweep. 4. Use the peak marker function to determine the maximum amplitude level. 5. Add $10 \log(1/x)$, where x is the duty cycle.
For 5725~5850 MHz	
☐	Method SA-1 (Duty Cycle >98%) 1. Set RBW = 1 MHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS. 2. Trace average 100 traces. 3. Use the peak marker function to determine the maximum amplitude level. 4. Add $10 \log(500\text{KHz}/1000\text{KHz})$
☒	Method SA-2 Alternative (Duty Cycle <98%) 1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS. 2. Set sweep time $\geq 10 * (\text{number of points in sweep}) * (\text{total on/off period of the transmitted signal})$. 3. Perform a single sweep. 4. Use the peak marker function to determine the maximum amplitude level. 5. Add $10 \log(1/x)$, where x is the duty cycle 6. Add $10 \log(500\text{KHz}/1000\text{KHz})$

11.3.測試配置





11.4. 測試結果及數據

Test Result : PASS Temperature : 21°C
Test Date : Nov. 24, 2017 Humidity : 55%

Modulation Standard: IEEE 802.11a (6Mbps)

PPSD Results								
Channel	Frequency (MHz)	Meas PSD (dBm/MHz)			Total Corr'd Power (dBm/MHz)			PPSD Limit (dBm/MHz)
		ANT 0	ANT 1	ANT 2	ANT 0	ANT 1	ANT 2	
Low	5180	-2.55	-1.33	-2.39	-2.38	-1.16	-2.22	14.23
Middle	5220	6.92	6.01	6.45	7.09	6.18	6.62	14.23
High	5240	-0.89	0.03	-1.21	-0.72	0.20	-1.04	14.23

Limit			
Channel	Frequency (MHz)	Power Limit (dBm)	PPSD Limit (dBm/MHz)
Low	5180	30.00	14.23
Middle	5220	30.00	14.23
High	5240	30.00	14.23
Duty Cycle CF (dB): 0.17			
Included in Calculations of Corr'd Power & PSD			



Modulation Standard: IEEE 802.11an HT20 (19.5Mbps)

PPSD Results								
Channel	Frequency (MHz)	Meas PSD (dBm/MHz)			Total Corr'd Power (dBm/MHz)			PPSD Limit (dBm/MHz)
		ANT 0	ANT 1	ANT 2	ANT 0	ANT 1	ANT 2	
Low	5180	-3.70	-4.28	-3.45	-3.19	-3.77	-2.94	14.23
Middle	5220	4.80	3.91	4.74	5.31	4.42	5.25	14.23
High	5240	-2.96	-1.38	-2.41	-2.45	-0.87	-1.90	14.23

Limit			
Channel	Frequency (MHz)	Power Limit (dBm)	PPSD Limit (dBm/MHz)
Low	5180	30.00	14.23
Middle	5220	30.00	14.23
High	5240	30.00	14.23
Duty Cycle CF (dB): 0.51			
Included in Calculations of Corr'd Power & PSD			



Modulation Standard: IEEE 802.11an HT40 (40.5Mbps)

Limit			
Channel	Frequency (MHz)	Power Limit (dBm)	PPSD Limit (dBm/MHz)
Low	5190	30.00	14.23
Middle	5230	30.00	14.23
Duty Cycle CF (dB): 0.99 Included in Calculations of Corr'd Power & PSD			

PPSD Results								
Channel	Frequency (MHz)	Meas PSD (dBm/MHz)			Total Corr'd Power (dBm/MHz)			PPSD Limit (dBm/MHz)
		ANT 0	ANT 1	ANT 2	ANT 0	ANT 1	ANT 2	
Low	5190	-8.18	-7.36	-8.67	-7.19	-6.37	-7.68	14.23
Middle	5230	1.00	-0.58	0.51	1.99	0.41	1.50	14.23



Modulation Standard: IEEE 802.11ac VHT20 (6.5Mbps)

Limit			
Channel	Frequency (MHz)	Power Limit (dBm)	PPSD Limit (dBm/MHz)
Low	5180	30.00	14.23
Middle	5220	30.00	14.23
High	5240	30.00	14.23
Duty Cycle CF (dB): 0.18			
Included in Calculations of Corr'd Power & PSD			

PPSD Results								
Channel	Frequency (MHz)	Meas PSD (dBm/MHz)			Total Corr'd Power (dBm/MHz)			PPSD Limit (dBm/MHz)
		ANT 0	ANT 1	ANT 2	ANT 0	ANT 1	ANT 2	
Low	5180	-9.88	-9.42	-9.42	-9.70	-9.24	-9.24	14.23
Middle	5220	7.11	5.68	5.93	7.29	5.86	6.11	14.23
High	5240	-7.59	-8.94	-8.29	-7.41	-8.76	-8.11	14.23



Modulation Standard: IEEE 802.11ac VHT40 (13.5Mbps)

Limit			
Channel	Frequency (MHz)	Power Limit (dBm)	PPSD Limit (dBm/MHz)
Low	5190	30.00	14.23
Middle	5230	30.00	14.23
Duty Cycle CF (dB): 0.39 Included in Calculations of Corr'd Power & PSD			

PPSD Results								
Channel	Frequency (MHz)	Meas PSD (dBm/MHz)			Total Corr'd Power (dBm/MHz)			PPSD Limit (dBm/MHz)
		ANT 0	ANT 1	ANT 2	ANT 0	ANT 1	ANT 2	
Low	5190	-6.04	-5.52	-5.79	-5.65	-5.13	-5.40	14.23
Middle	5230	3.11	1.88	1.91	3.50	2.27	2.30	14.23



Modulation Standard: IEEE 802.11ac VHT80 (29.3Mbps)

Limit			
Channel	Frequency (MHz)	Power Limit (dBm)	PPSD Limit (dBm/MHz)
Low	5210	30.00	14.23
Duty Cycle CF (dB): 0.74			
Included in Calculations of Corr'd Power & PSD			

PPSD Results								
Channel	Frequency (MHz)	Meas PSD (dBm/MHz)			Total Corr'd Power (dBm/MHz)			PPSD Limit (dBm/MHz)
		ANT 0	ANT 1	ANT 2	ANT 0	ANT 1	ANT 2	
Low	5210	-7.66	-7.88	-8.64	-6.92	-7.14	-7.90	14.23



Test Result : PASS Temperature : 21°C
Test Date : Nov. 24, 2017 Humidity : 55%
5.8G Band

Modulation Standard: IEEE 802.11a (6Mbps)

Limit			
Channel	Frequency (MHz)	Power Limit (dBm)	PPSD Limit (dBm/MHz)
Low	5745	30.00	27.23
Middle	5785	30.00	27.23
High	5825	30.00	27.23
Duty Cycle CF (dB): 0.17			
Included in Calculations of Corr'd Power & PSD			

PPSD Results								
Channel	Frequency (MHz)	Meas PSD (dBm/MHz)			Total Corr'd Power (dBm/MHz)			PPSD Limit (dBm/MHz)
		ANT 0	ANT 1	ANT 2	ANT 0	ANT 1	ANT 2	
Low	5745	-6.93	-7.01	-7.28	-6.76	-6.84	-7.11	27.23
Middle	5785	5.06	4.04	4.95	5.23	4.21	5.12	27.23
High	5825	-8.74	-8.76	-7.45	-8.57	-8.59	-7.28	27.23



Modulation Standard: IEEE 802.11an HT20 (19.5Mbps)

Limit			
Channel	Frequency (MHz)	Power Limit (dBm)	PPSD Limit (dBm/MHz)
Low	5745	30.00	27.23
Middle	5785	30.00	27.23
High	5825	30.00	27.23
Duty Cycle CF (dB): 0.51			
Included in Calculations of Corr'd Power & PSD			

PPSD Results								
Channel	Frequency (MHz)	Meas PSD (dBm/MHz)			Total Corr'd Power (dBm/MHz)			PPSD Limit (dBm/MHz)
		ANT 0	ANT 1	ANT 2	ANT 0	ANT 1	ANT 2	
Low	5745	-10.54	-10.86	-9.47	-10.03	-10.35	-8.96	27.23
Middle	5785	3.8	2.38	3.75	4.31	2.89	4.26	27.23
High	5825	-12.31	-12.40	-10.82	-11.80	-11.89	-10.31	27.23



Modulation Standard: IEEE 802.11an HT40 (40.5Mbps)

Limit			
Channel	Frequency (MHz)	Power Limit (dBm)	PPSD Limit (dBm/MHz)
Low	5755	30.00	27.23
Middle	5795	30.00	27.23
Duty Cycle CF (dB): 0.99 Included in Calculations of Corr'd Power & PSD			

PPSD Results								
Channel	Frequency (MHz)	Meas PSD (dBm/MHz)			Total Corr'd Power (dBm/MHz)			PPSD Limit (dBm/MHz)
		ANT 0	ANT 1	ANT 2	ANT 0	ANT 1	ANT 2	
Low	5755	-20.33	-18.98	-17.80	-19.34	-17.99	-16.81	27.23
Middle	5795	-19.73	-19.45	-18.89	-18.74	-18.46	-17.90	27.23



Modulation Standard: IEEE 802.11ac VHT20 (6.5Mbps)

Limit			
Channel	Frequency (MHz)	Power Limit (dBm)	PPSD Limit (dBm/MHz)
Low	5745	30.00	27.23
Middle	5785	30.00	27.23
High	5825	30.00	27.23
Duty Cycle CF (dB): 0.18			
Included in Calculations of Corr'd Power & PSD			

PPSD Results								
Channel	Frequency (MHz)	Meas PSD (dBm/MHz)			Total Corr'd Power (dBm/MHz)			PPSD Limit (dBm/MHz)
		ANT 0	ANT 1	ANT 2	ANT 0	ANT 1	ANT 2	
Low	5745	-8.49	-7.16	-5.87	-8.31	-6.98	-5.69	27.23
Middle	5785	4.74	3.35	4.44	4.92	3.53	4.62	27.23
High	5825	-9.25	-8.52	-6.14	-9.07	-8.34	-5.96	27.23



Modulation Standard: IEEE 802.11ac VHT40 (13.5Mbps)

Limit			
Channel	Frequency (MHz)	Power Limit (dBm)	PPSD Limit (dBm/MHz)
Low	5755	30.00	27.23
Middle	5795	30.00	27.23
Duty Cycle CF (dB): 0.39 Included in Calculations of Corr'd Power & PSD			

PPSD Results								
Channel	Frequency (MHz)	Meas PSD (dBm/MHz)			Total Corr'd Power (dBm/MHz)			PPSD Limit (dBm/MHz)
		ANT 0	ANT 1	ANT 2	ANT 0	ANT 1	ANT 2	
Low	5755	-13.51	-13.77	-12.61	-13.12	-13.38	-12.22	27.23
Middle	5795	-14.30	-13.94	-10.44	-13.91	-13.55	-10.05	27.23



Modulation Standard: IEEE 802.11ac VHT80 (29.3Mbps)

Limit			
Channel	Frequency (MHz)	FCC Power Limit (dBm)	FCC PPSD Limit (dBm/MHz)
Low	5775	30.00	27.23
Duty Cycle CF (dB): 0.74			
Included in Calculations of Corr'd Power & PPSD			

PPSD Results								
Channel	Frequency (MHz)	Meas PPSD (dBm/MHz)			Total Corr'd Power (dBm/MHz)			PPSD Limit (dBm/MHz)
		ANT 0	ANT 1	ANT 2	ANT 0	ANT 1	ANT 2	
Low	5775	-21.76	-21.00	-19.21	-21.02	-20.26	-18.47	27.23

備註：繪圖資料請參考下頁。

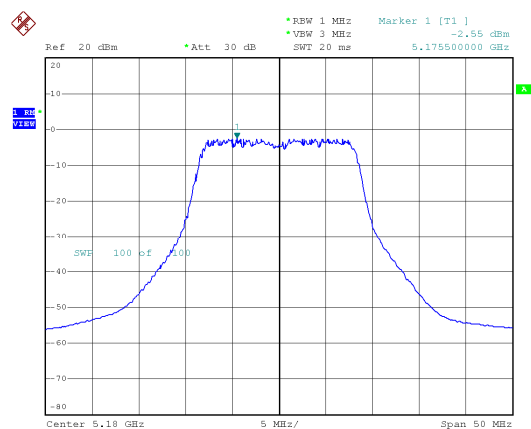
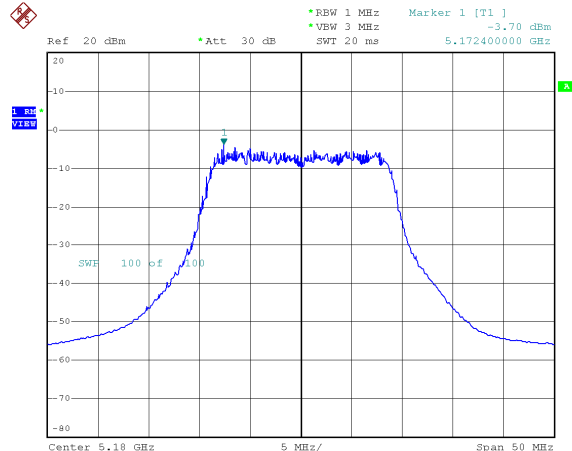
11.5. 結果判定

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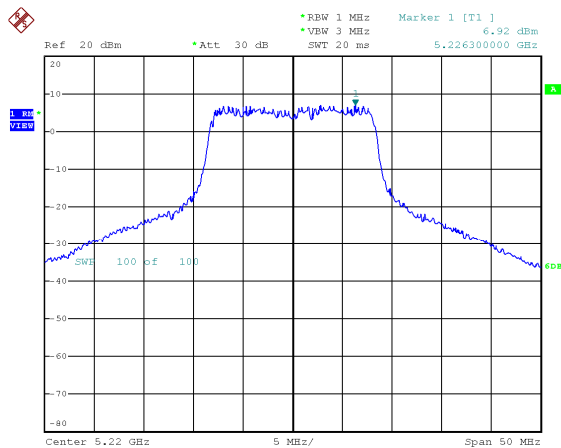


5.2G Band

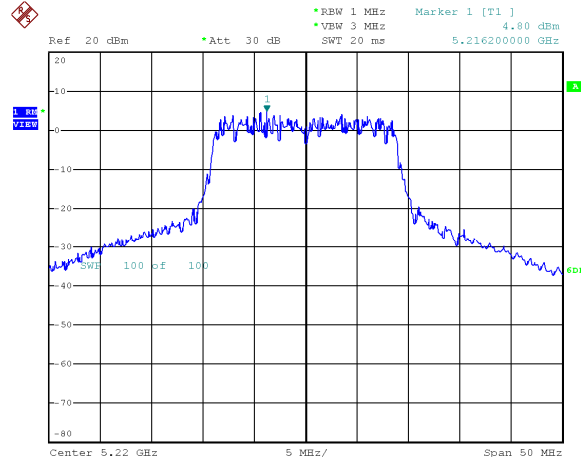
Antenna 0

Modulation Standard: 802.11a (6Mbps)
CH36Modulation Standard: 802.11an HT20 (19.5Mbps)
CH36

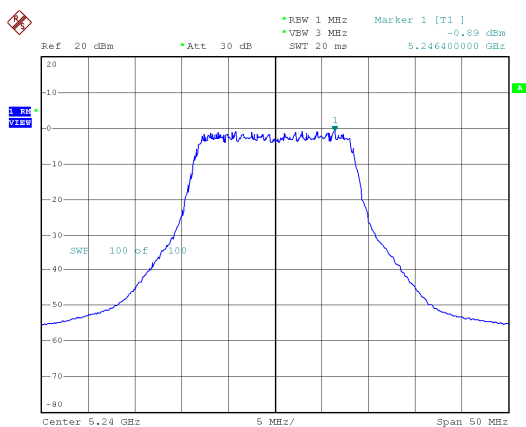
CH44



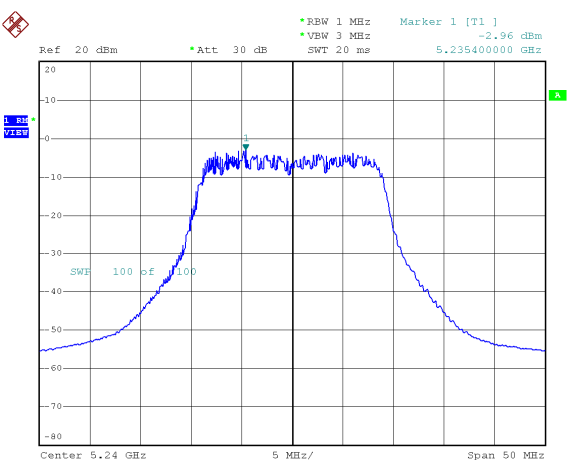
CH44

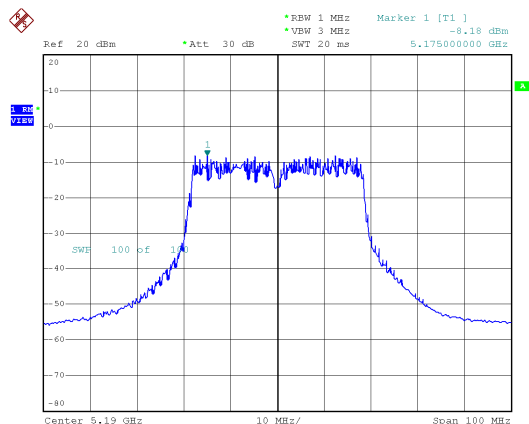
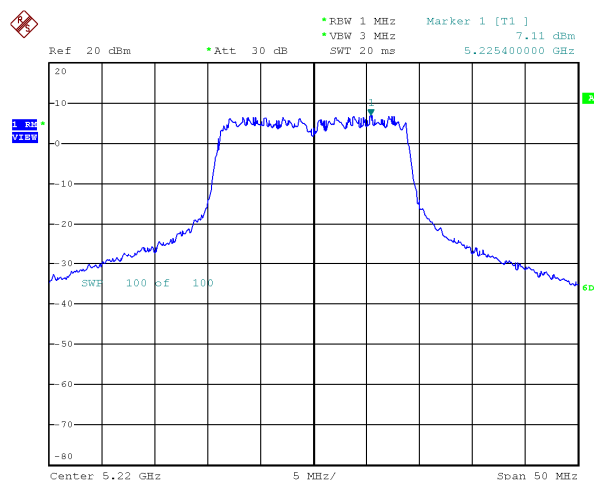


CH48

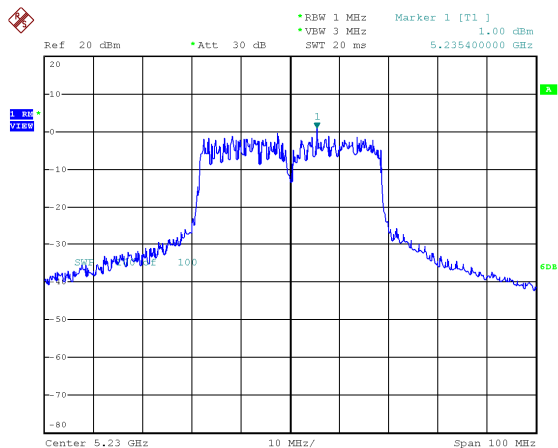


CH48

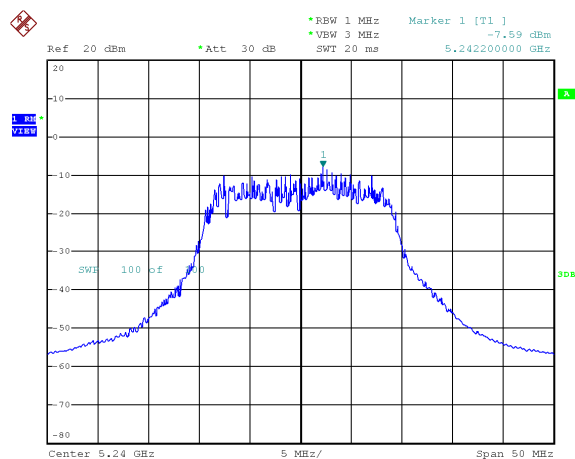
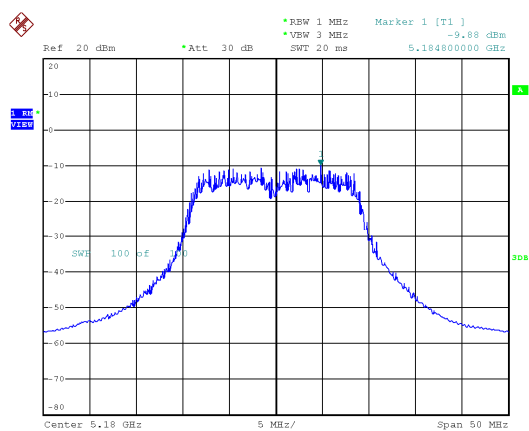
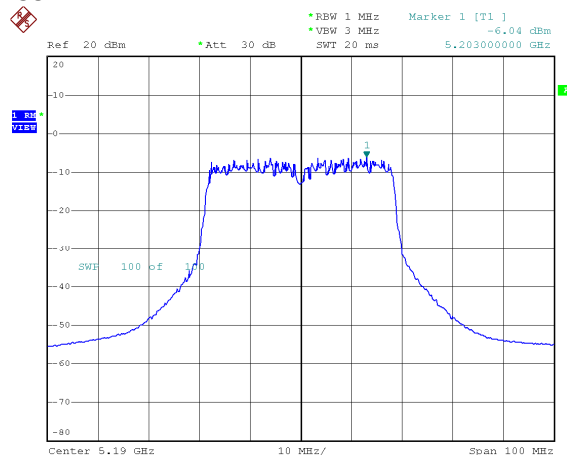


Modulation Standard: 802.11an HT40 (40.5Mbps)
CH38Modulation Standard: 802.11ac VHT20 (6.5Mbps)
CH44

CH46

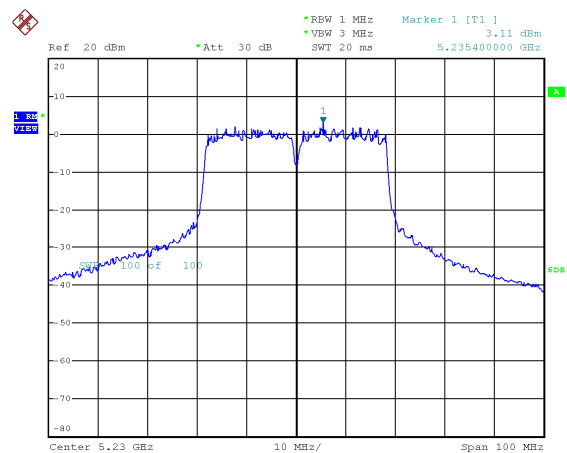


CH48

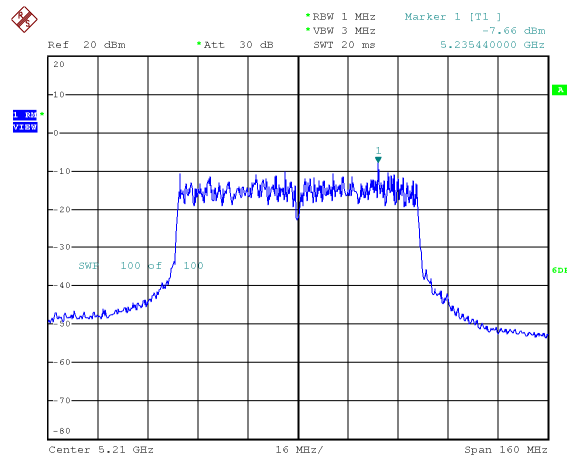
Modulation Standard: 802.11ac VHT20 (6.5Mbps)
CH36Modulation Standard: 802.11ac VHT40 (13.5Mbps)
CH38



Modulation Standard: 802.11ac VHT40 (13.5Mbps)
CH46

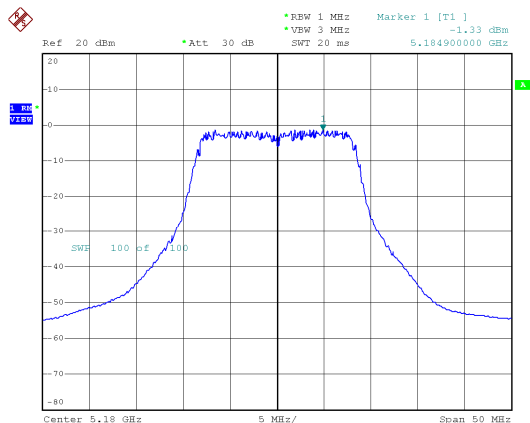
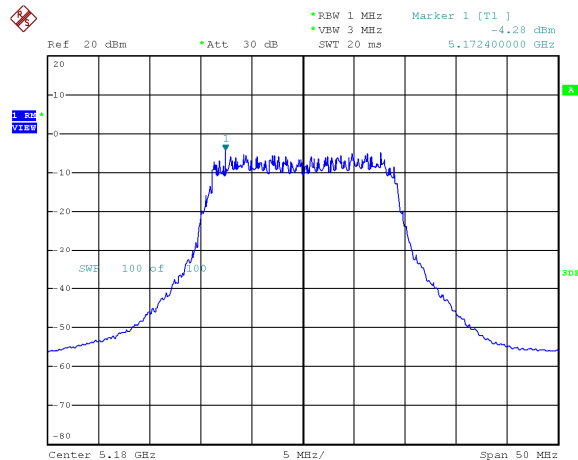


Modulation Standard: 802.11ac VHT80 (29.3Mbps)
CH42

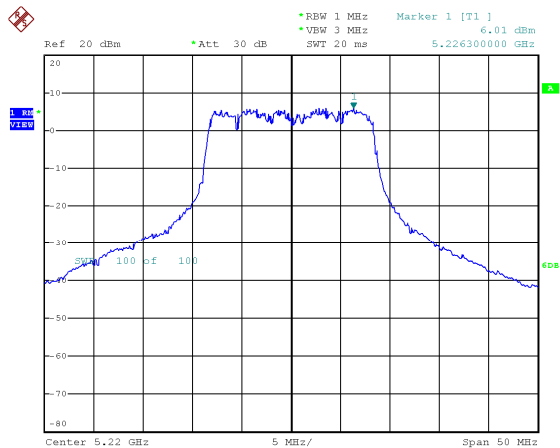




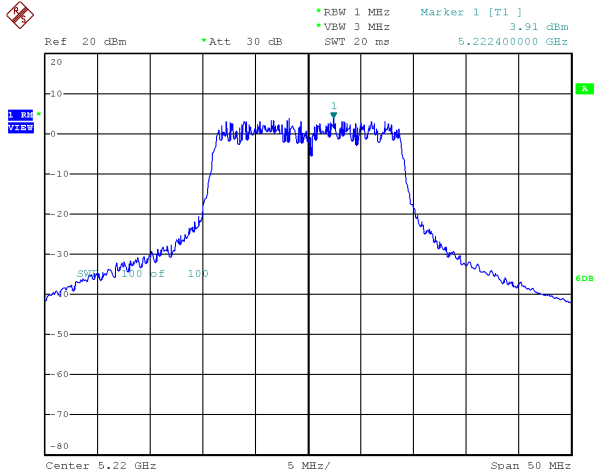
Antenna 1

Modulation Standard: 802.11a (6Mbps)
CH36Modulation Standard: 802.11an HT20 (19.5Mbps)
CH36

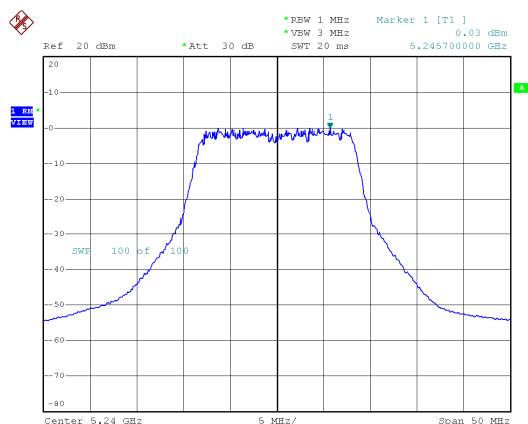
CH44



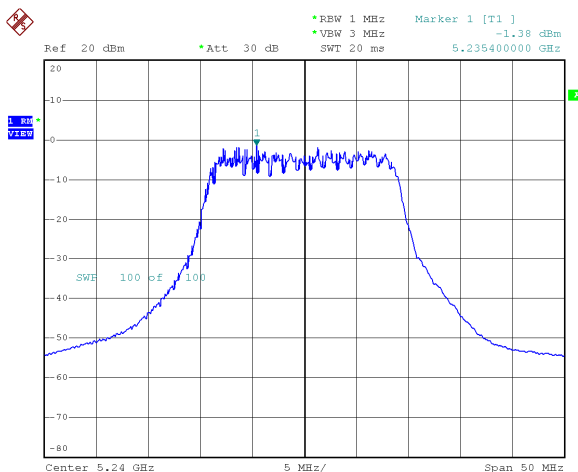
CH44

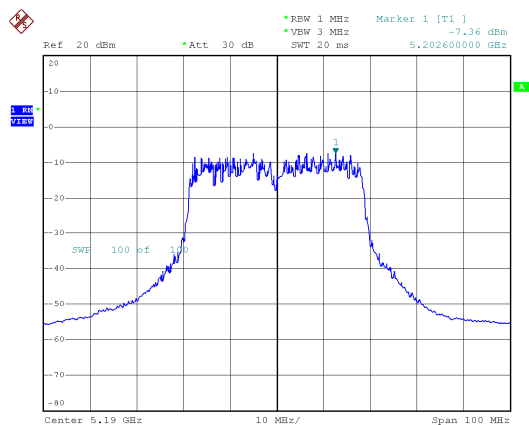
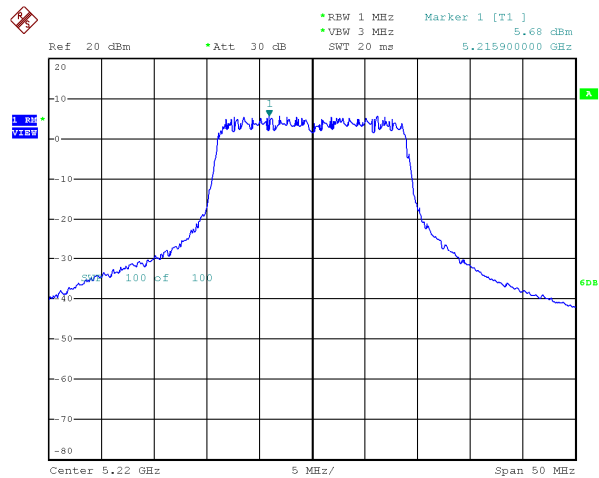


CH48

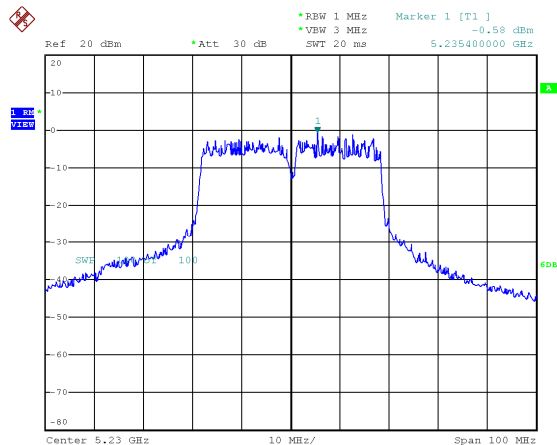


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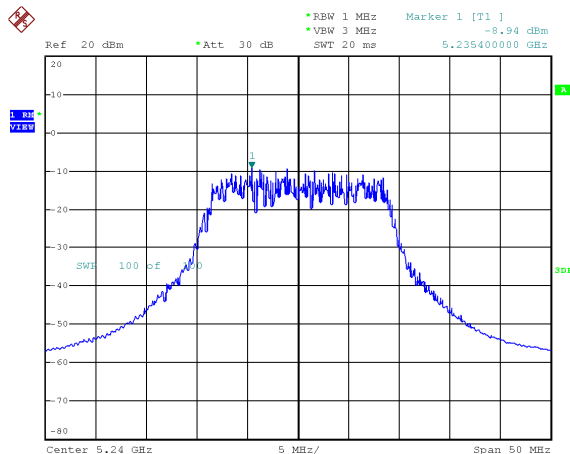
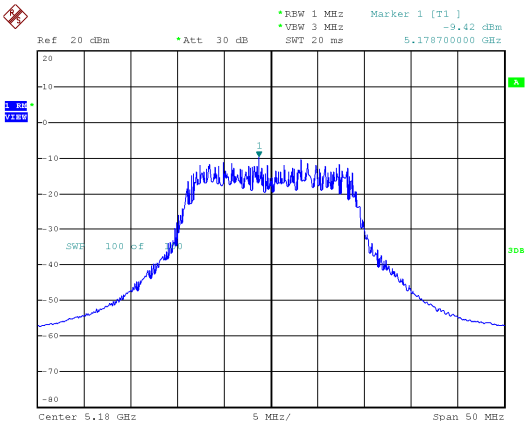
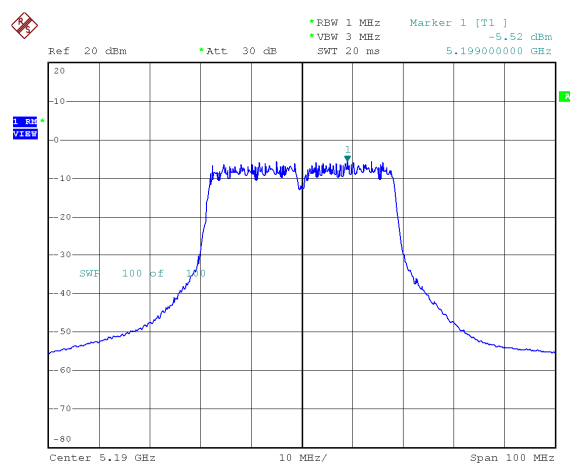


Modulation Standard: 802.11an HT40 (40.5Mbps)
CH38Modulation Standard: 802.11ac VHT20 (6.5Mbps)
CH44

CH46

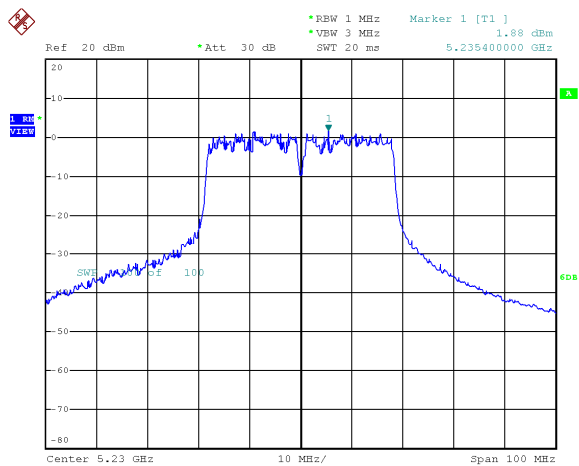


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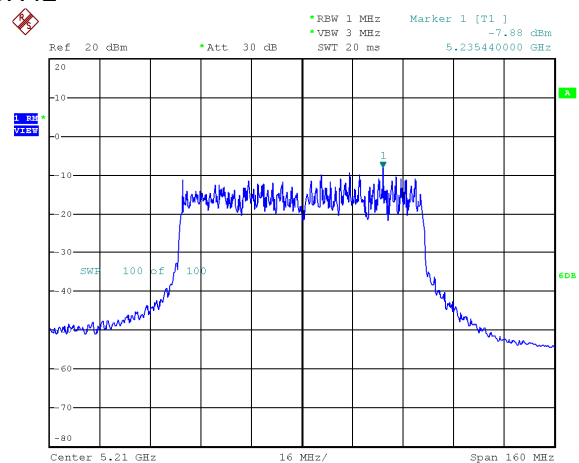
Modulation Standard: 802.11ac VHT20 (6.5Mbps)
CH36Modulation Standard: 802.11ac VHT40 (13.5Mbps)
CH38



Modulation Standard: 802.11ac VHT40 (13.5Mbps)
CH46



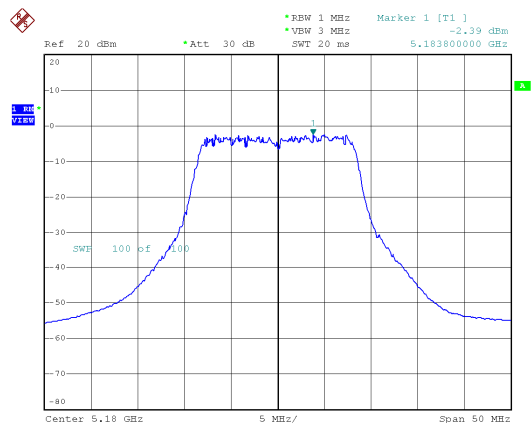
Modulation Standard: 802.11ac VHT80 (29.3Mbps)
CH42



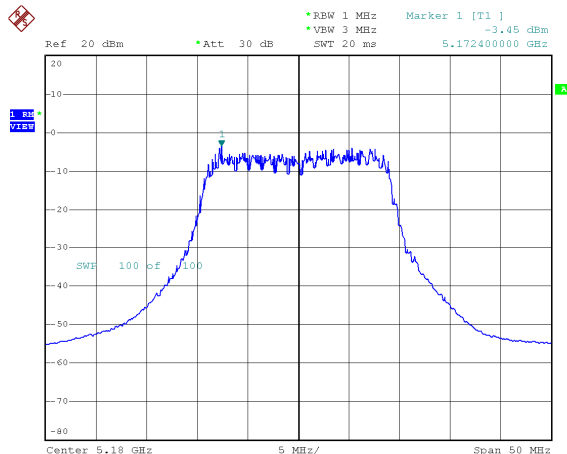


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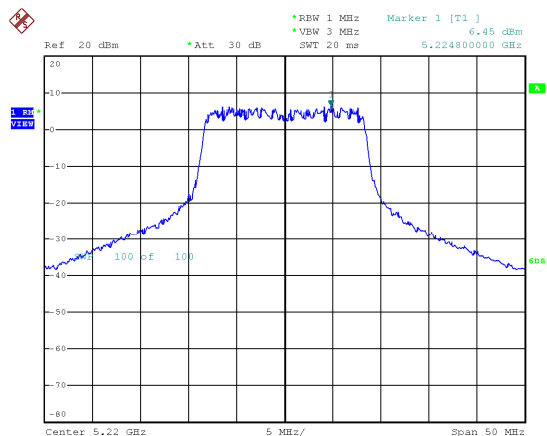
Modulation Standard: 802.11a (6Mbps)
CH36



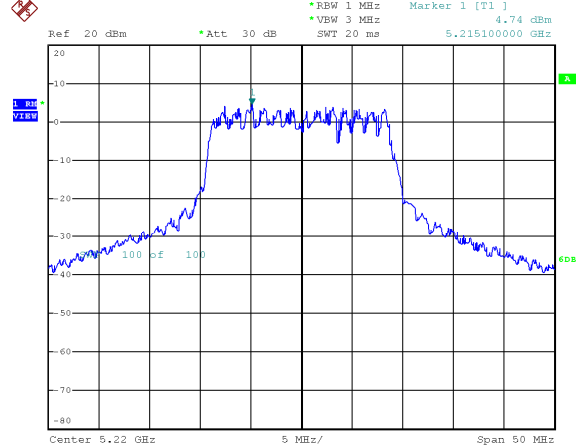
Modulation Standard: 802.11an HT20 (19.5Mbps)
CH36



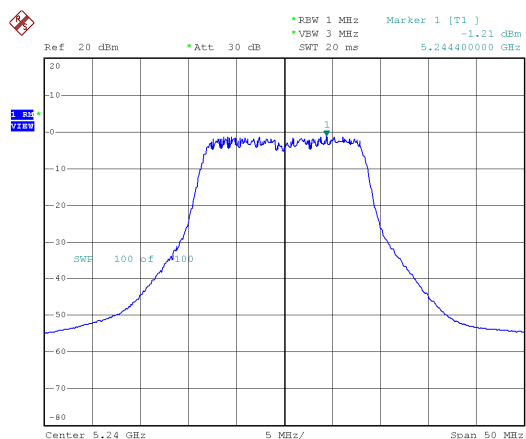
CH44



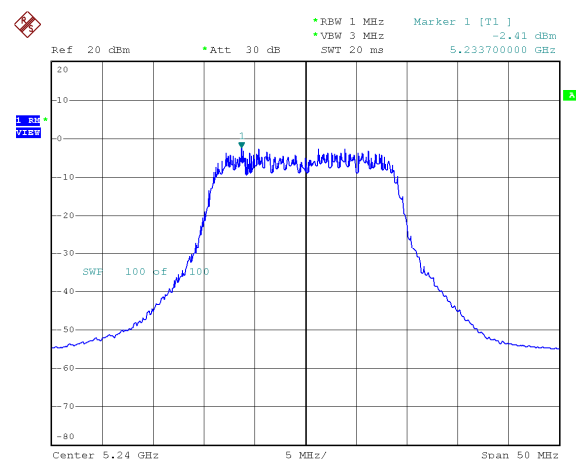
CH44

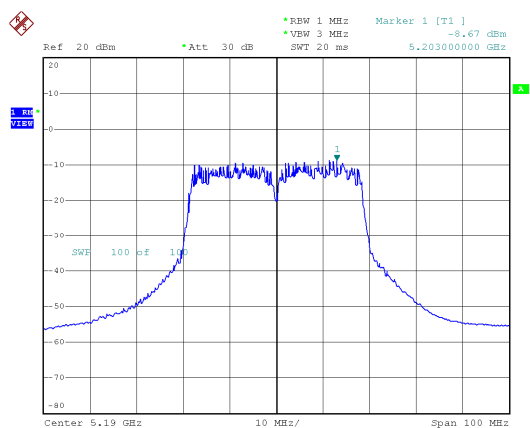
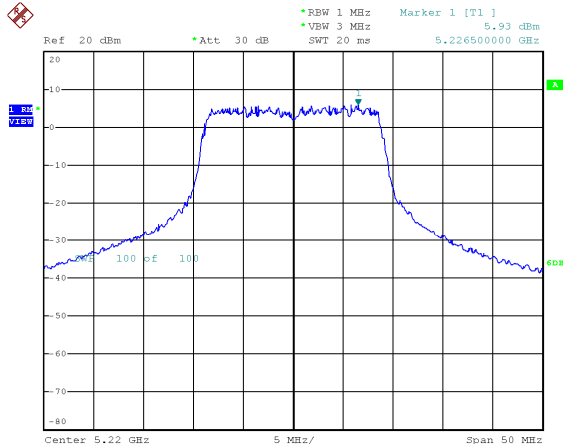


CH48

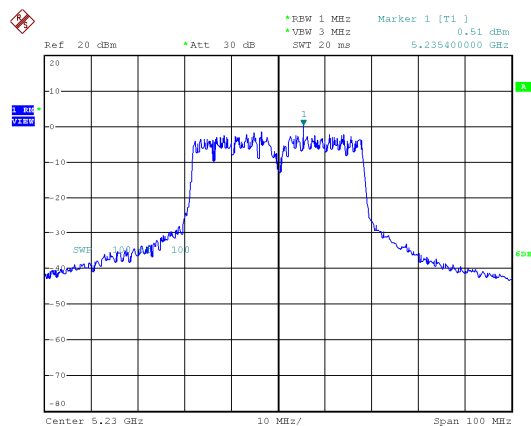


CH48

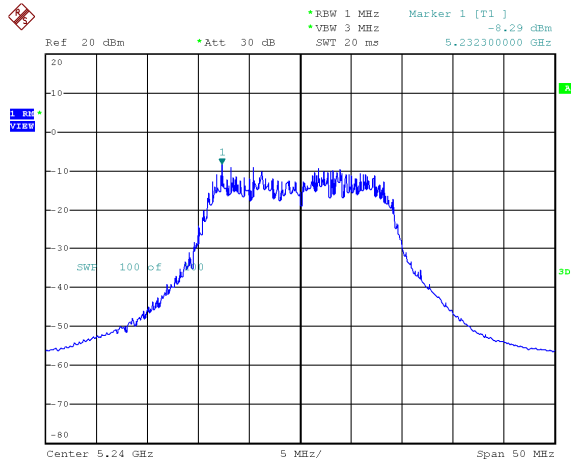
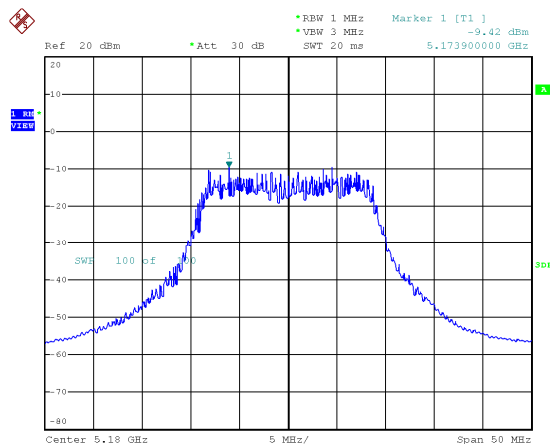
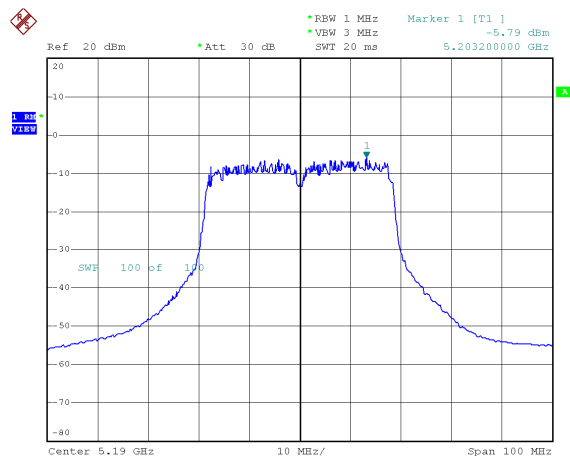


Modulation Standard: 802.11an HT40 (40.5Mbps)
CH38Modulation Standard: 802.11ac VHT20 (6.5Mbps)
CH44

CH46

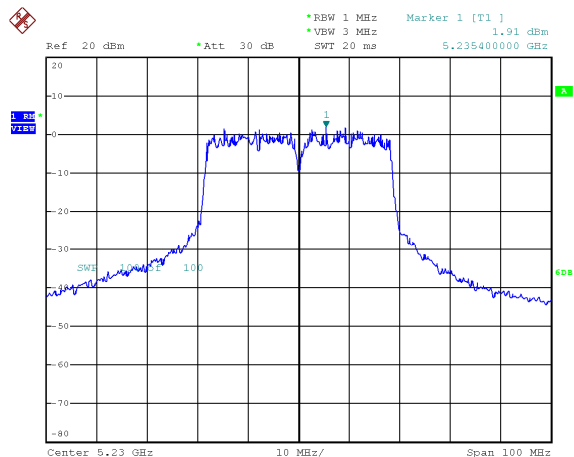


CH48

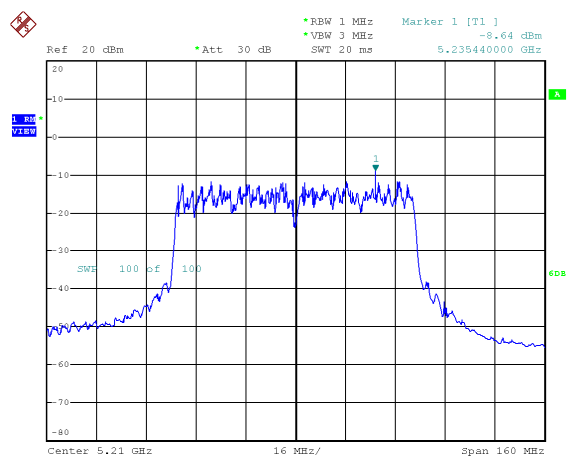
Modulation Standard: 802.11ac VHT20 (6.5Mbps)
CH36Modulation Standard: 802.11ac VHT40 (13.5Mbps)
CH38



Modulation Standard: 802.11ac VHT40 (13.5Mbps)
CH46

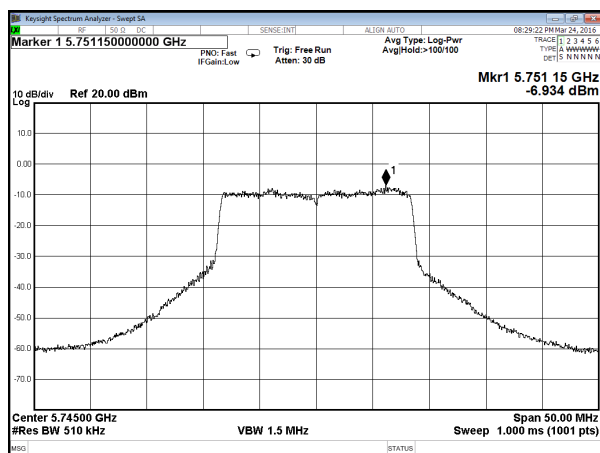


Modulation Standard: 802.11ac VHT80 (29.3Mbps)
CH42

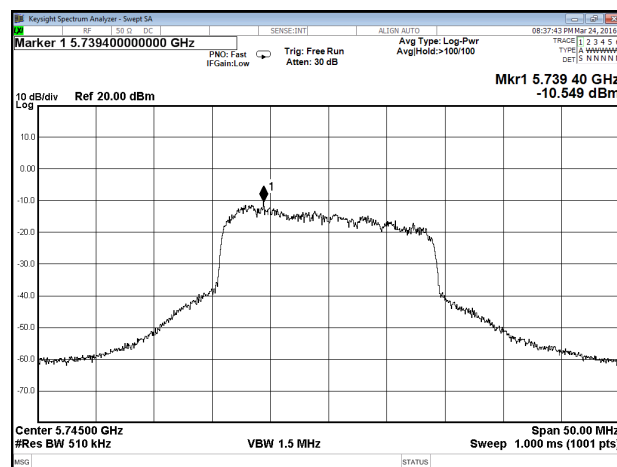




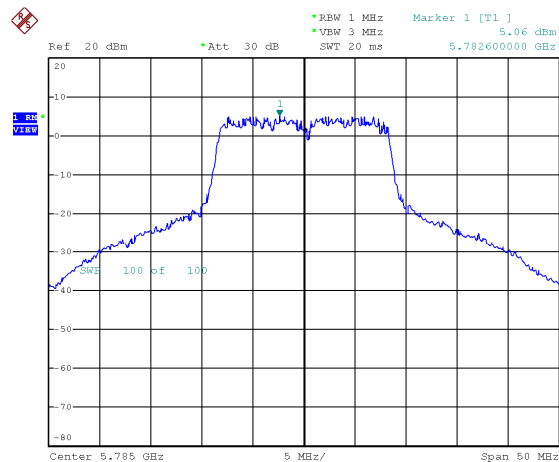
5.8G Band
Antenna 0
Modulation Standard: 802.11a (6Mbps)
CH149



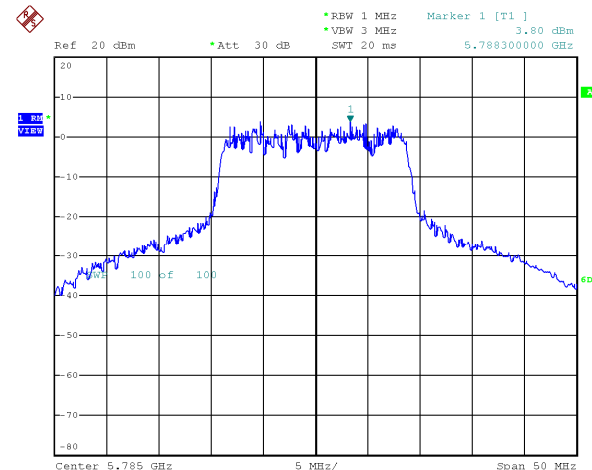
Modulation Standard: 802.11an, HT20 (19.5Mbps)
CH149



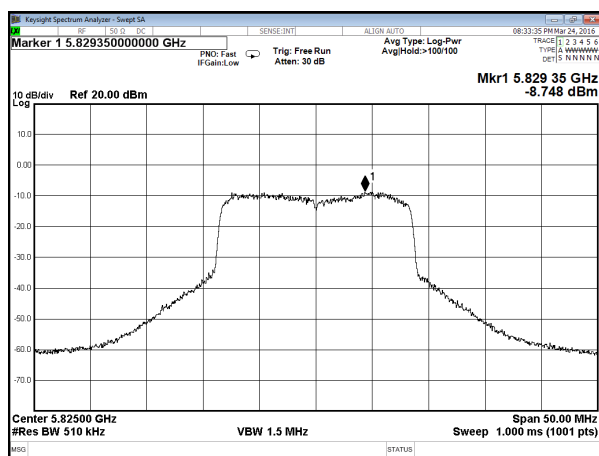
CH157



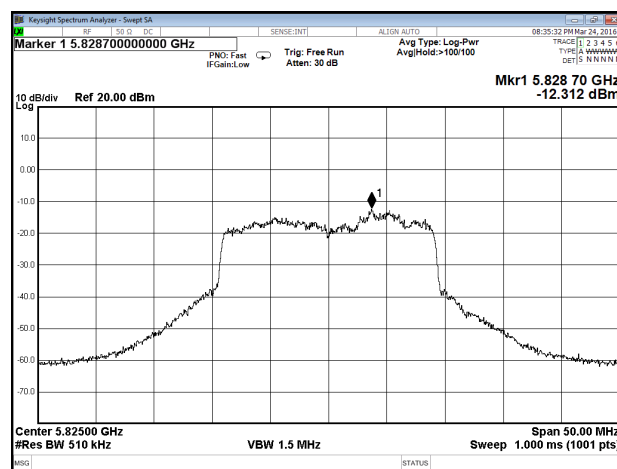
CH157

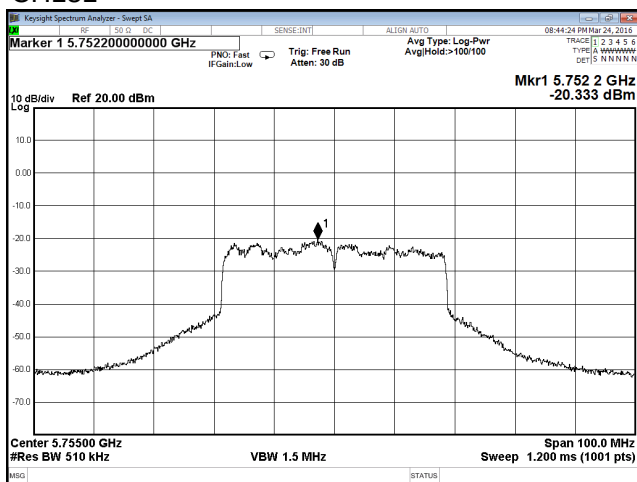
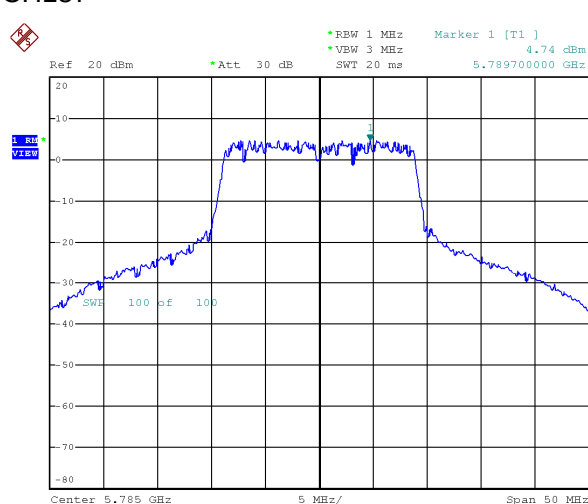


CH165

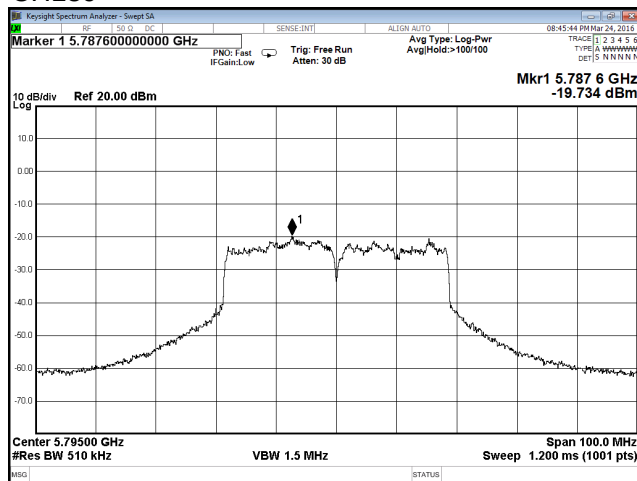


CH165

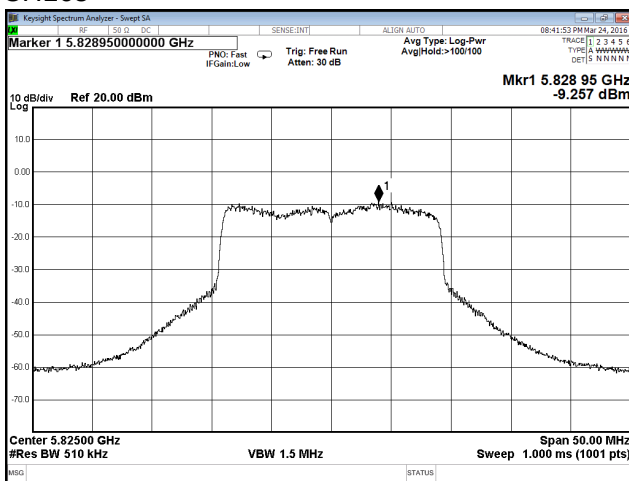
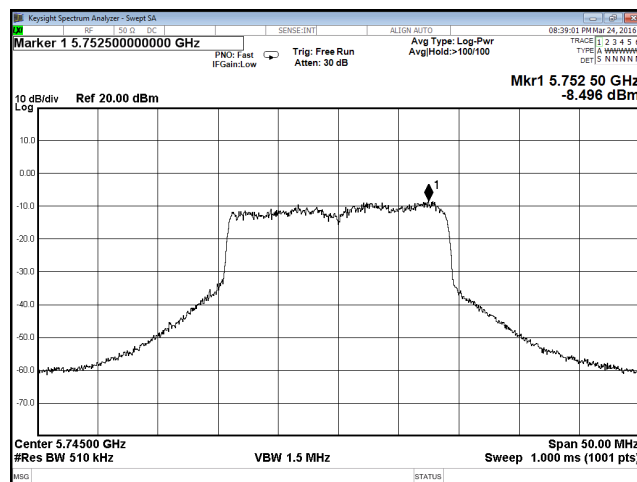
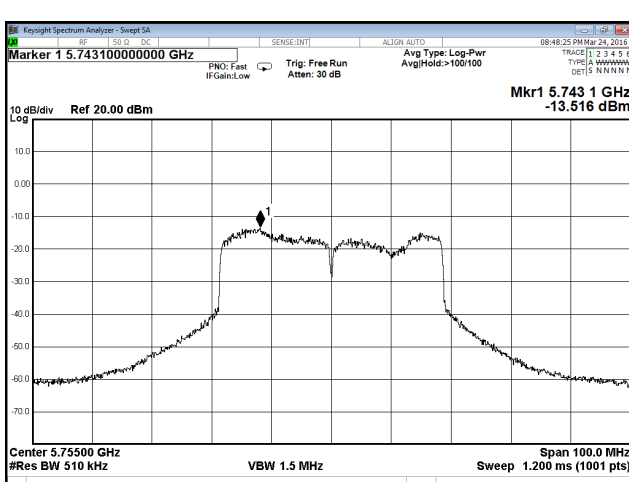


Modulation Standard: 802.11an, HT40 (40.5Mbps)
CH151Modulation Standard: 802.11ac, VHT20 (6.5Mbps)
CH157

CH159

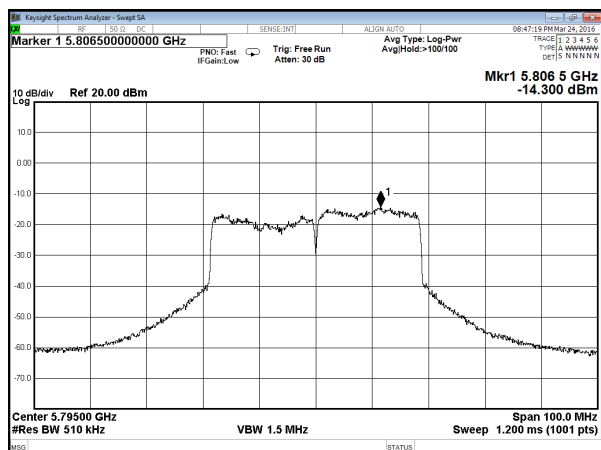


CH165

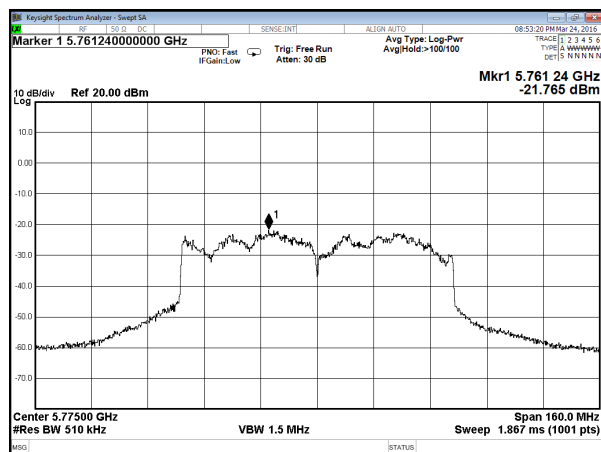
Modulation Standard: 802.11ac, VHT20 (6.5Mbps)
CH149Modulation Standard: 802.11ac, VHT40 (13.5Mbps)
CH151



Modulation Standard: 802.11ac, VHT40 (13.5Mbps)
CH159

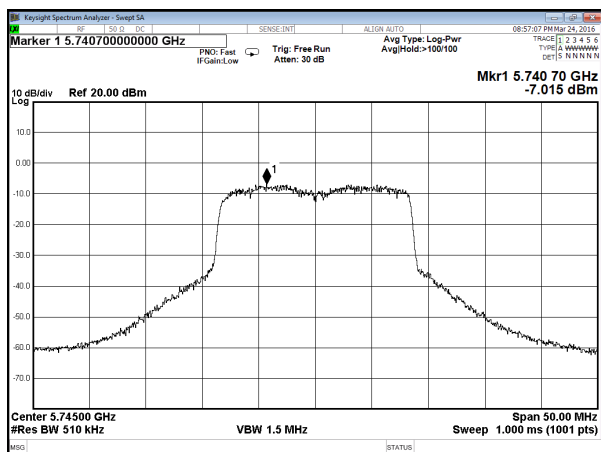
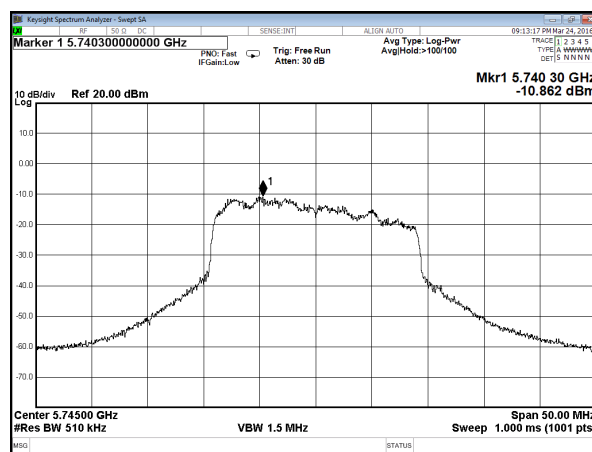


Modulation Standard: 802.11ac, VHT80 (29.3Mbps)
CH155

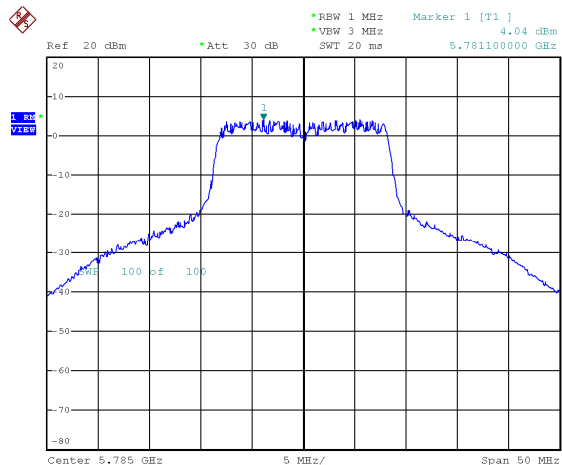




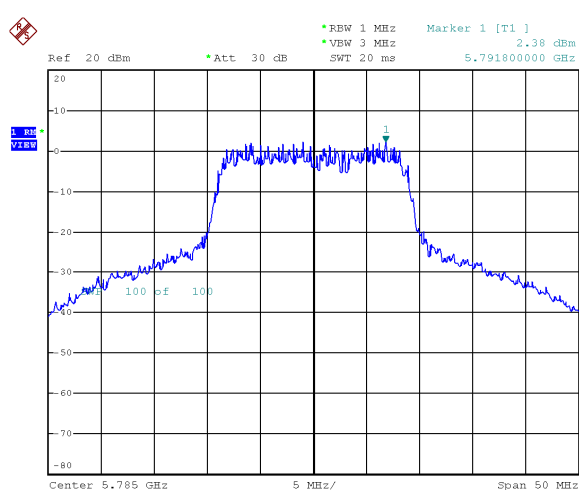
Antenna 1

Modulation Standard: 802.11a (6Mbps)
CH149Modulation Standard: 802.11an, HT20 (19.5Mbps)
CH149

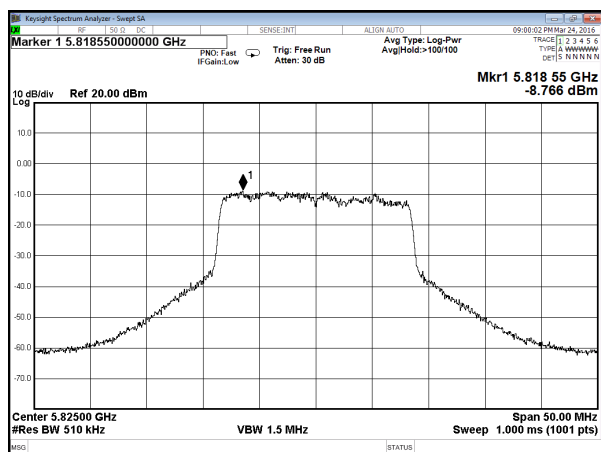
CH157



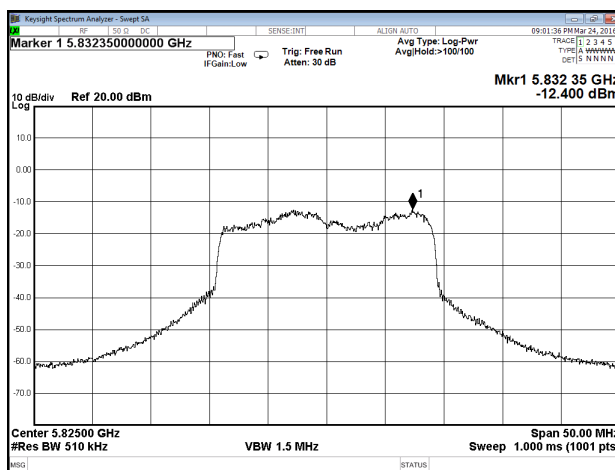
CH157

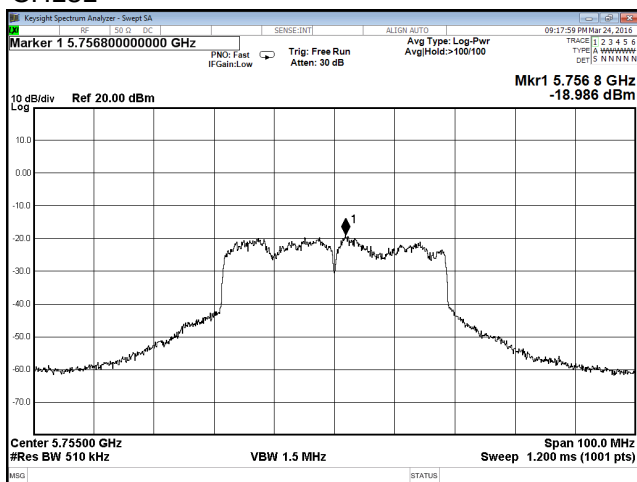
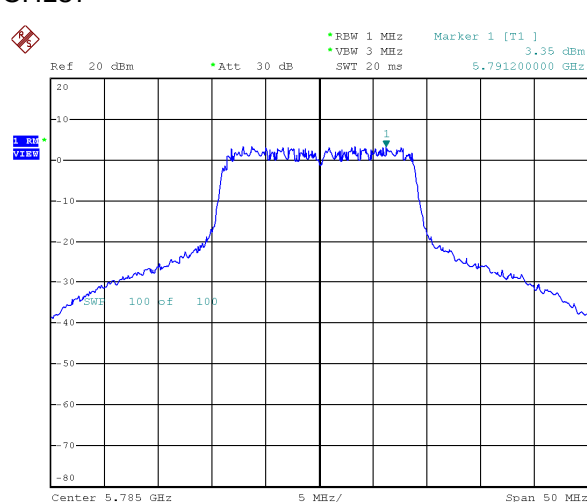


CH165

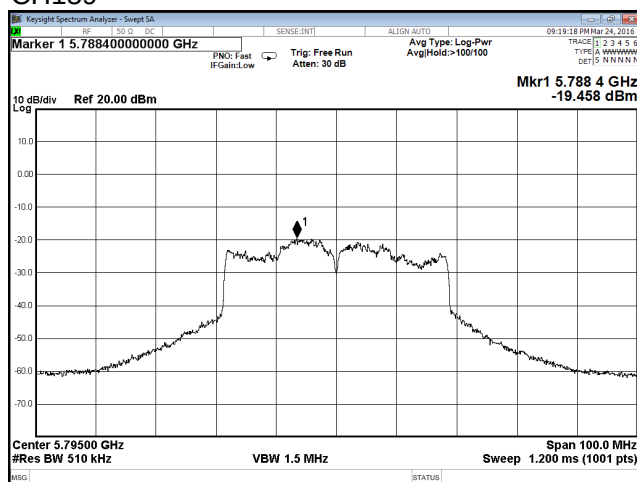


CH165

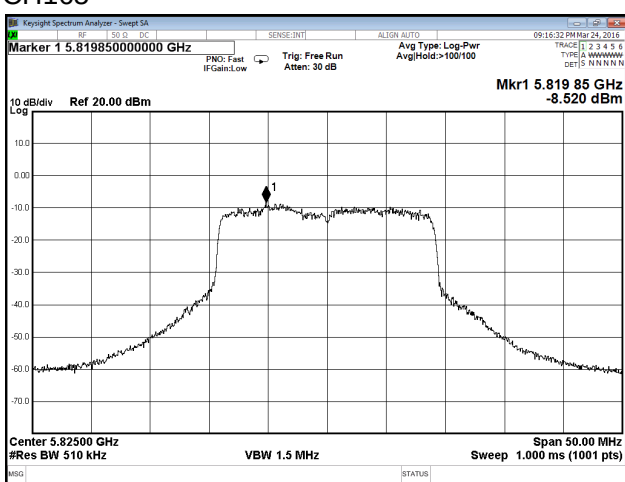
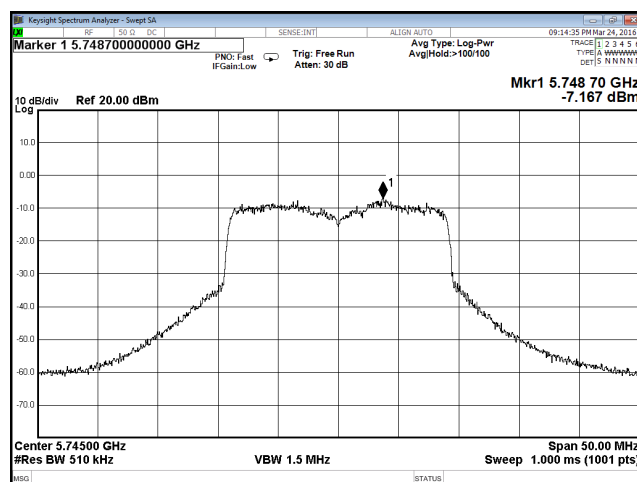
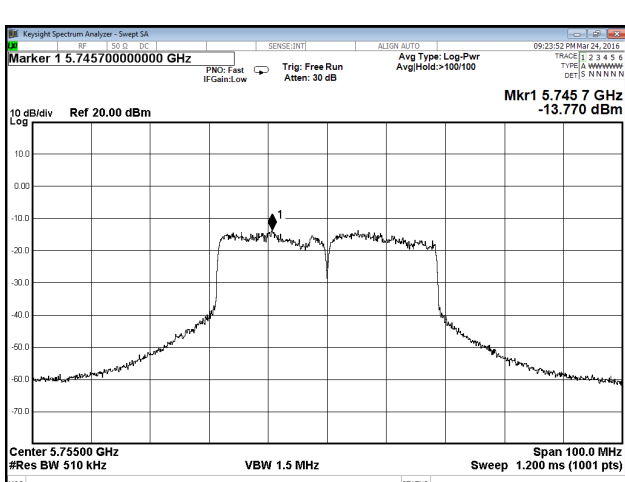


Modulation Standard: 802.11an, HT40 (40.5Mbps)
CH151Modulation Standard: 802.11ac, VHT20 (6.5Mbps)
CH157

CH159

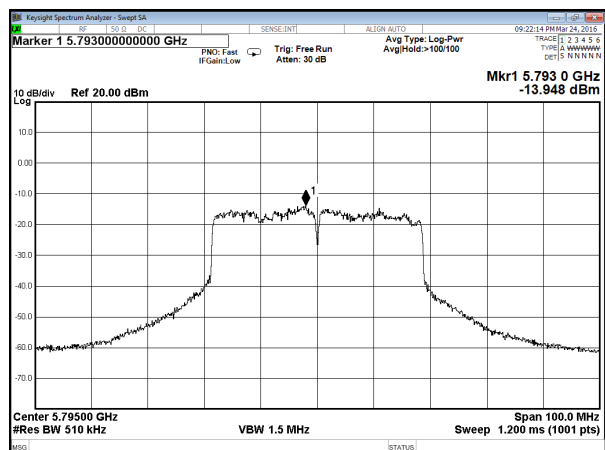


CH165

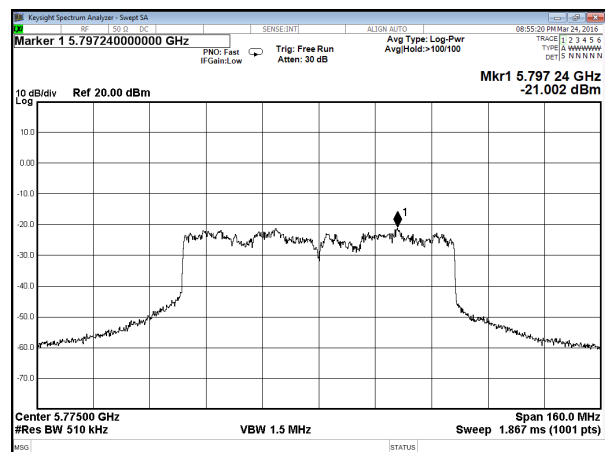
Modulation Standard: 802.11ac, VHT20 (6.5Mbps)
CH149Modulation Standard: 802.11ac, VHT40 (13.5Mbps)
CH151



Modulation Standard: 802.11ac, VHT40 (13.5Mbps)
CH159

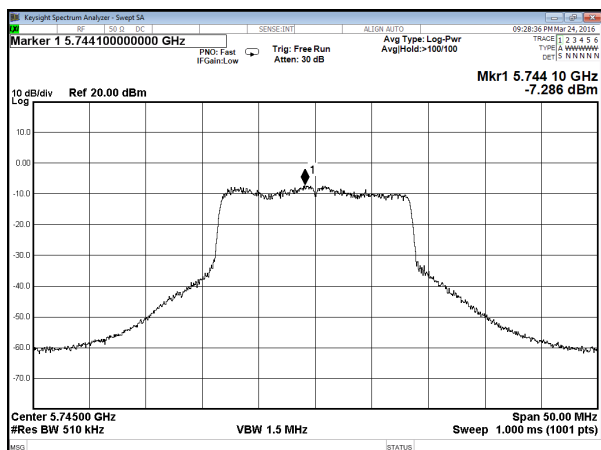
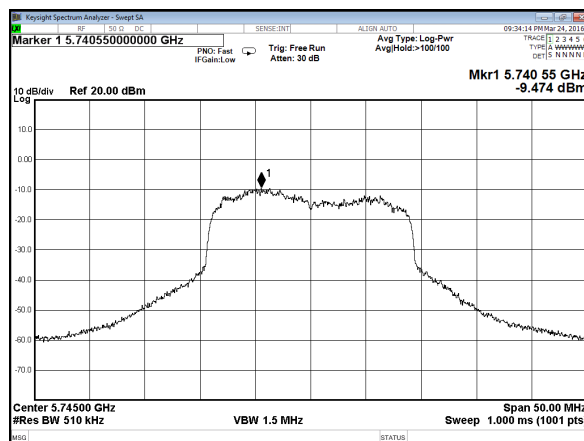


Modulation Standard: 802.11ac, VHT80 (29.3Mbps)
CH155

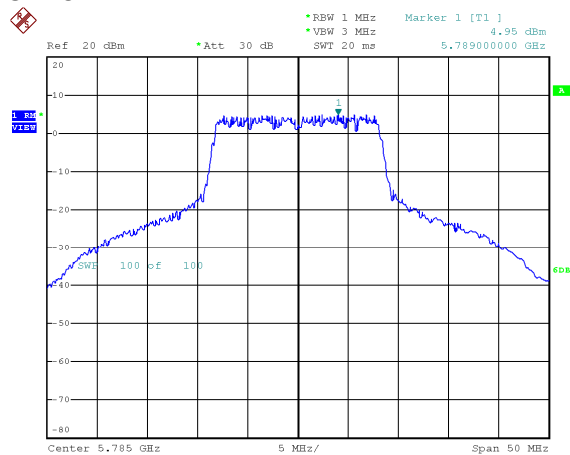




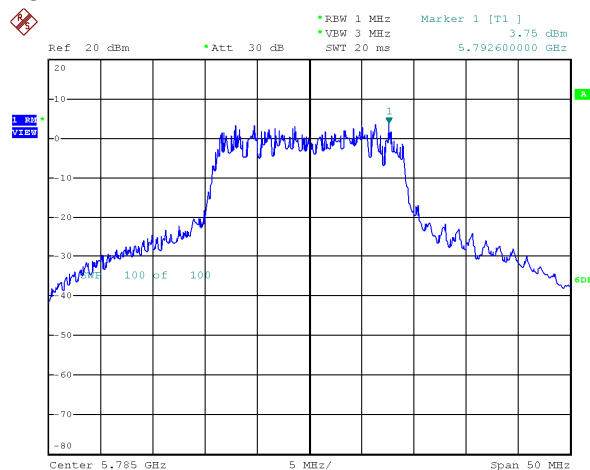
Antenna 2

Modulation Standard: 802.11a (6Mbps)
CH149Modulation Standard: 802.11an, HT20 (19.5Mbps)
CH149

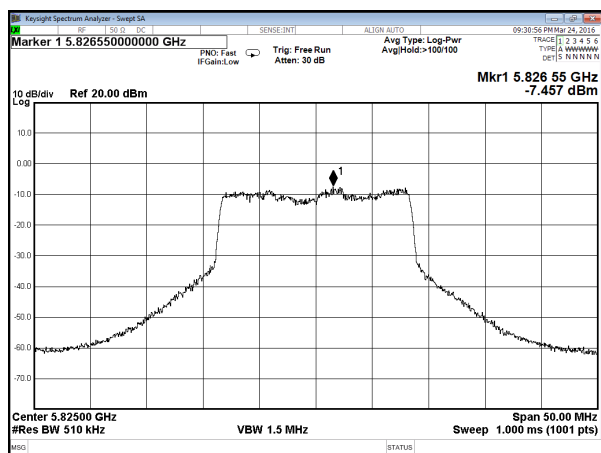
CH157



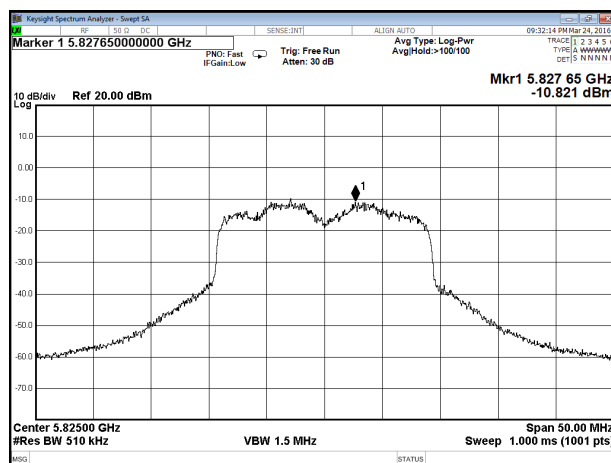
CH157

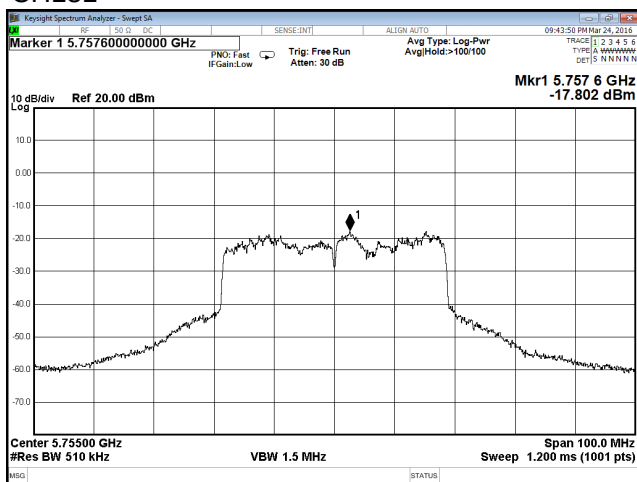
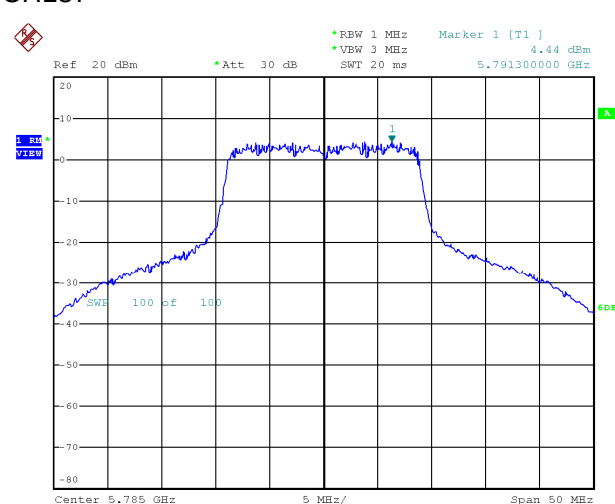


CH165

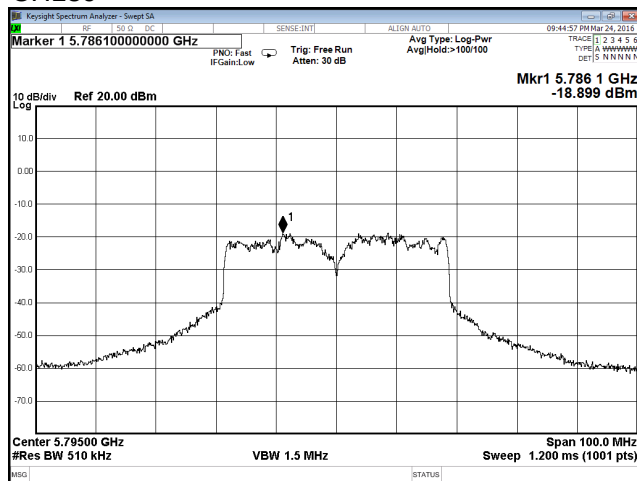


CH165

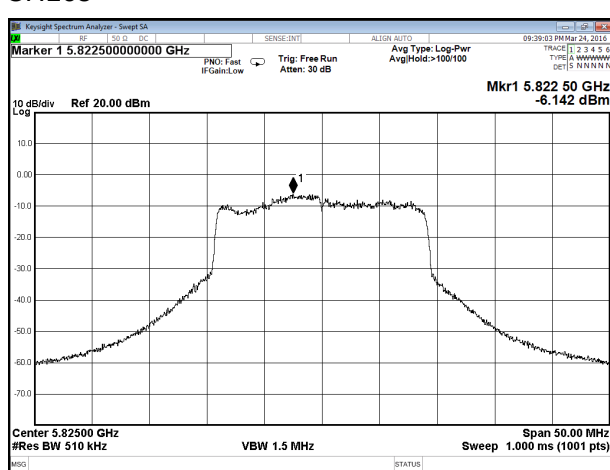
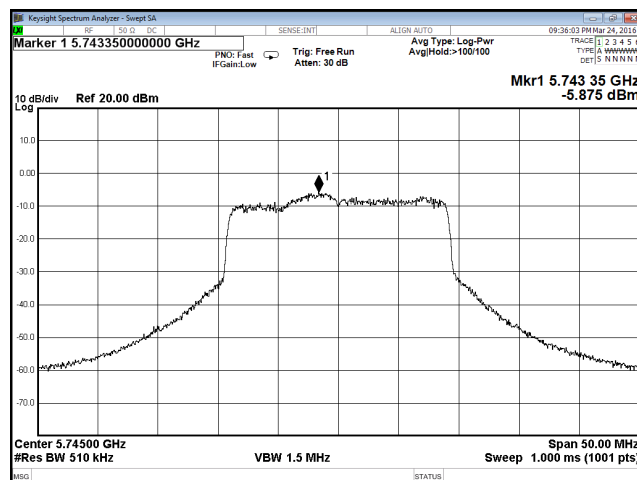
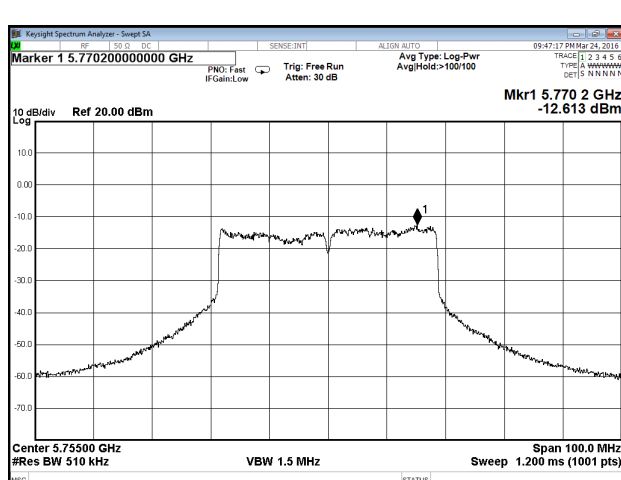


Modulation Standard: 802.11an, HT40 (40.5Mbps)
CH151Modulation Standard: 802.11ac, VHT20 (6.5Mbps)
CH157

CH159

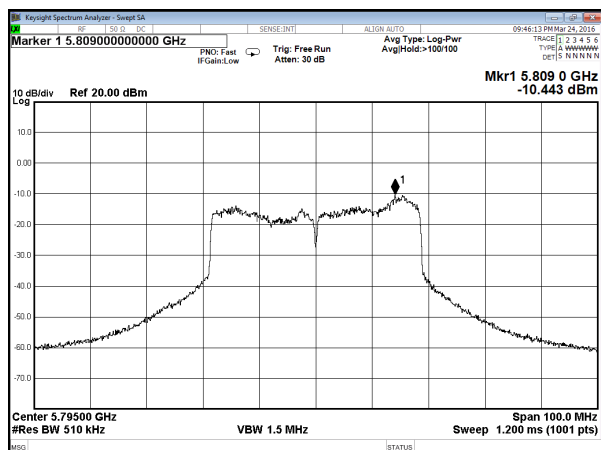


CH165

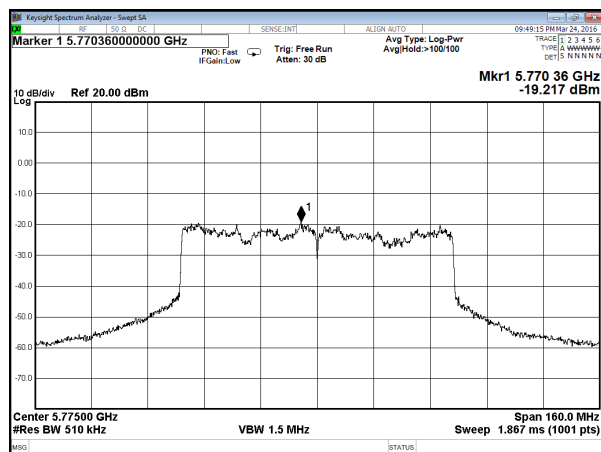
Modulation Standard: 802.11ac, VHT20 (6.5Mbps)
CH149Modulation Standard: 802.11ac, VHT40 (13.5Mbps)
CH151



Modulation Standard: 802.11ac, VHT40 (13.5Mbps)
CH159



Modulation Standard: 802.11ac, VHT80 (29.3Mbps)
CH155





12. 電波暴露量之評估

12.1. 適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範 5.20 節之(5.20.2)規定，若受測物於正常操作模式下，其發射機距離人體 20 公分以上者，可測試最大暴露允許值(Maximum Permissible Exposure, MPE)以證明其符電波暴露量之要求。限制值如下：

(1) 職業性/可控制之暴露

頻率範圍 (MHz)	電場強度 (V/m)	磁場強度 (A/m)	功率密度 (mW/cm ²)	平均時間 (minutes)
0.3-3.0	614	1.63	*100	6
3-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500	-----	-----	f/300	6
1,500-100,000	-----	-----	5.0	6

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：百萬赫(MHz)。

(2) 一般人/不可控制之暴露

頻率範圍 (MHz)	電場強度 (V/m)	磁場強度 (A/m)	功率密度 (mW/cm ²)	平均時間 (minutes)
0.3-3.0	614	1.63	*100	30
3-30	1842/f	4.89/f	*180/f ²	30
30-300	27.5	0.073	1.0	30
300-1,500	-----	-----	f/1500	30
1,500-100,000	-----	-----	1.0	30

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：百萬赫(MHz)。



12.2. 電波暴露量之評估結果及數據

Test Result : PASS Temperature : 21°C
Test Date : Nov. 24, 2017 Humidity : 55%

Modulation Type	Frequency band (MHz)	Max. Conducted output power (dBm)	Antenna gain (dBi)	Distance (cm)	Power density (mW/cm ²)	Limit (mW/cm ²)
802.11a	5150-5250	26.44	4	20	0.2202	1
802.11an (20MHz)	5150-5250	26.73	4	20	0.2354	1
802.11an (40MHz)	5150-5250	27.18	4	20	0.2611	1
802.11ac (20MHz)	5150-5250	26.49	4	20	0.2227	1
802.11ac (40MHz)	5150-5250	26.43	4	20	0.2196	1
802.11ac (80MHz)	5150-5250	20.83	4	20	0.0605	1
802.11a	5725-5850	26.24	4	20	0.2102	1
802.11an (20MHz)	5725-5850	26.55	4	20	0.2258	1
802.11an (40MHz)	5725-5850	17.42	4	20	0.0276	1
802.11ac (20MHz)	5725-5850	26.33	4	20	0.2146	1
802.11ac (40MHz)	5725-5850	16.21	4	20	0.0209	1
802.11ac (80MHz)	5725-5850	16.09	4	20	0.0203	1

12.3. 結果判定

高、中、低頻段的電波暴露量皆低於限制值，合乎標準規定。



13. 限制使用之頻帶

Only spurious emissions are permitted in any of the frequency bands listed below:

頻率(兆赫)	頻率(兆赫)	頻率(兆赫)
0.090 - 0.110	167.72 - 173.20	3260.0 - 3267.0
0.490 - 0.510	240.00 - 285.00	3332.0 - 3339.0
2.172 - 2.198	322.00 - 335.40	3345.8 - 3358.0
3.013 - 3.033	399.90 - 410.00	3500.0 - 4400.0
4.115 - 4.198	485.00 - 510.00	4500.0 - 5250.0
5.670 - 5.690	608.00 - 614.00	5350.0 - 5460.0
6.200 - 6.300	703.00 - 748.00	7250.0 - 7750.0
8.230 - 8.400	758.00 - 803.00	8025.0 - 8500.0
12.265 - 12.600	825.00 - 915.00	9000.0 - 9200.0
13.340 - 13.430	930.00 - 1240.0	9300.0 - 9500.0
14.965 - 15.020	1300.0 - 1427.0	10600- 12700
16.700 - 16.755	1435.0 - 1626.5	13250- 13400
19.965 - 20.020	1660.0 - 1770.0	14470- 14500
25.500 - 25.700	1805.0 - 1865.0	15350- 16200
37.475 - 38.275	1885.0 - 1900.0	17700- 21400
73.500 - 75.400	1905.0 - 1985.0	22010- 23120
108.00 - 138.00	2015.0 - 2025.0	23600- 24000
149.90 - 150.05	2125.0 - 2160.0	31200- 31800
156.70 - 156.90	2200.0 - 2300.0	36430- 36500
162.01 - 167.17	2310.0 - 2390.0	38600 以上
162.01 - 167.17	2483.5 - 2900.0	